



STIC Search Report

EIC 2600

STIC Database Tracking Number: 156095

TO: Lucas Divine
Location: KNX 09 D28
Art Unit : 2624
Wednesday, June 15, 2005

Case Serial Number: 10/003389

From: Paul Obiniyi
Location: EIC 2600
KNX 08 B55
Phone: 305-1836

paul.obiniyi@uspto.gov

Search Notes

Dear Examiner Divine,

Attached please find the results of your search. Please feel free to contact me if you have additional questions or would like a re-focus search. Thank you and have a great day.

Paul

32

Access DB# 156098

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name Divine Lucas Examiner #: 80399 Date: 6/10/05
Art Unit: 2624 Phone Number 2-7432 Serial Number: 10/003389
Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the el species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define a terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pert claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

STAFF USE ONLY

Searcher: Paul Obinny

Searcher Phone #: 27734

Searcher Location: KKX 08 BSS

Date Searcher Picked Up: 06/15/05

Date Completed: 06/15/05

Searcher Prep & Review Time: 80

Clerical Prep Time: _____

Online Time: 164

Type of Search

Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic L

Litigation _____

Fulltext L

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog \$ L

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet L

Other (specify) SPI, RD, ProQuest

INSPEC, ACM, ASWme

Textbases

? show files; ds; save temp; logoff hold
File 256:TecInfoSource 82-2005/Apr
(c) 2005 Info.Sources Inc

Set	Items	Description
S1	4	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-COMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
S2	18	LOSSLESS(3N)(PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N)(COMP-RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	0	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR R? OR FISCHER, T? OR FISCHER T?)

1/3,K/1

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

01453595 DOCUMENT TYPE: Product

PRODUCT NAME: Pixel!FX 2000 (453595)

Mentalix Inc (519006)
1700 Alma Dr #110
Plano, TX 75075 United States
TELEPHONE: (972) 423-9377

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040202

...with a wide range of third-party applications. It also provides users with compression and **decompression** features. Pixel! **FX** works with Agfa, Epson, Fujitsu, Hewlett-Packard, Microtek, and other scanners.

1/3,K/2

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

00153460 DOCUMENT TYPE: Review

PRODUCT NAMES: XXS3DI (229721); Coral-P (229733); SoftStream Player (229745)

TITLE: Embedding media-centric technology

AUTHOR: Webb, Warren

SOURCE: EDN Magazine, v49 n12 p37(4) Jun 10, 2004

ISSN: 0012-7515

HOME PAGE: <http://www.ednmag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

REVISION DATE: 20050400

Most multimedia implementations require new hardware and software on embedded systems, and compression and **decompression algorithms** (codecs) require fast processors or dedicated hardware as well as high bandwidth data communications channels...

...system. Multimedia interfaces are required to meet customer expectations, and integration of video compression and **decompression algorithms** can increase the difficulty of choosing real-time hardware. Digital rights management (DRM) may be...

1/3,K/3

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

00152802 DOCUMENT TYPE: Review

PRODUCT NAMES: DVD (837971); Ulead DVD Workshop 2 (131024); Impression
DVD (732141)

TITLE: Cracking DVD encoding: Part of what makes today's...

AUTHOR: Kelly, Colleen

SOURCE: eMedia, v17 n3 p16(7) Mar 2004

ISSN: 1525-4658

HOME PAGE: <http://www.onlineinc.com/emedial>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

REVISION DATE: 20041200

...of conversion in which uncompressed video becomes compressed digital
video via several standards (codecs compression/ **decompression algorithms**
). The ease with which compression can be achieved depends on the type of
source material...

1/3,K/4

DIALOG(R) File 256:TecInfoSource

(c) 2005 Info.Sources Inc. All rts. reserv.

00142834

DOCUMENT TYPE: Review

PRODUCT NAMES: Tetra (142301); iGrafx Process Central (142298)

TITLE: VLIW processor powers smart devices

AUTHOR: Staff

SOURCE: Vision Systems Design, v7 n10 p9(2) Oct 2002

ISSN: 1089-3709

HOME PAGE: <http://www.vision-systems-design.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030228

...Vcon demonstrated Tetra running video over IP software, which includes
H.263+ video compression and **decompression algorithms**, an H.323 network
protocol stack, and G.711 audio compression and decompression. DynaPel and
...
?

2/3,K/1

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

02626511 DOCUMENT TYPE: Company

Hifn Inc (626511)

750 University Ave
Los Gatos, CA 95032 United States
TELEPHONE: (408) 399-3500
FAX: (408) 399-3501
HOMEPAGE: <http://www.hifn.com>
TICKER: NASDAQ : HIFN

RECORD TYPE: Directory

CONTACT: Sales Department

ORGANIZATION TYPE: Corporation

EQUITY TYPE: Public

STATUS: Active

NUMBER OF EMPLOYEES: 125

SALES: NA

PERSONNEL: Kenber, Chris G, Chief Executive Officer; Kenber, Chris G, President; Kenber, Chris G, Chairperson; Walker, William R, VP; Walker, William R, Chief Financial Officer; Moore, Tom, VP Sales; Moore, Tom, VP Marketing; Dietz, Russell, VP; Dietz, Russell, Chief Technology Officer; Malik, Kamran, VP Engineering

REVISION DATE: 20040228

...authentication, and other network security technologies. The firm has earned 14 patents for the LZS **lossless** data **compression** technology. Its integrated Hifn Intelligent Packet Processing (HIPPP) chip products provide users with accelerated encryption...

2/3,K/2

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

01794562 DOCUMENT TYPE: Product

PRODUCT NAME: LuraDocument (794562)

Algo Vision LuraTech GmbH (663921)
Helmholtzstr #2-9 10587
Berlin, GE Germany
TELEPHONE: () 303-940500

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040210

...LuraDocument achieves dramatic reductions in file sizes yet retains text and graphics features. It offers **lossless compression** of text and recognition of colored and reverse text. LuraDocument also supports three

color modes...

2/3,K/3

DIALOG(R)File 256:TecInfoSource
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01755885 DOCUMENT TYPE: Product

PRODUCT NAME: LuraWave (755885)

Algo Vision LuraTech GmbH (663921)
Helmholtzstr #2-9 10587
Berlin, GE Germany
TELEPHONE: () 303-940500

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040210

...Vision LuraTech GmbH offers wavelet-based image compression, with high-quality images, a choice of **lossless** or lossy **compression**, and dramatic reductions in file sizes. It supports progressive loading of images (for Web site...

2/3,K/4

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

01733491 DOCUMENT TYPE: Product

PRODUCT NAME: DigiSuite (733491)

Matrox Electronic Systems Ltd (621641)
1055 Blvd St Regis
Dorval, PQ H9P 2T4 Canada
TELEPHONE: (514) 822-6000

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040106

...positioning, and transparent drop shadows on two video layers, with a 32-bit graphics layer. **Lossless** images are **compressed** on the fly with a mathematically lossless codec similar to a ZIP file, using a...

2/3,K/5

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

01164615 DOCUMENT TYPE: Product

PRODUCT NAME: SuperGIF 1.5 (164615)

BoxTop Software Inc (618039)
PO Box 2347
Starkville, MS 39760 United States
TELEPHONE: (662) 263-5410

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20030915

BoxTop Software's SuperGIF 1.5 is a file **compression** program that offers **lossless** GIF animation optimization features. The product employs LZW interframe optimization and a smart redithering algorithm...

2/3,K/6

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

01111716 DOCUMENT TYPE: Product

PRODUCT NAME: Digital Jacket 2002 (111716)

DesAcc Inc (727075)
801 W Adams St
Chicago, IL 60607 United States
TELEPHONE: (312) 930-5617

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20021030

...convert files, and digitize teaching files. Digital Jacket supports TWAIN scanners. It handles lossy and **lossless** file **compression**. It also includes backup and recovery, patient anonymization, worklist, and thumbnail preview features.

2/3,K/7

DIALOG(R)File 256:TecInfoSource
(c) 2005 Info.Sources Inc. All rts. reserv.

00140198 DOCUMENT TYPE: Review

PRODUCT NAMES: JPEG2000 (843369); Genuine Fractals PrintPro (725285)

TITLE: JPEG 2000: Past and future of digital image compression for CMYK
AUTHOR: McMahon, Frank
SOURCE: Digital Output, v8 n6 p32(2) Jun 2002
ISSN: 1083-5121
HOME PAGE: <http://www.digitalout.net>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20021030

...reversible, and Genuine Fractals Print Pro 2.5 is a Photoshop plug-in with straight **lossless compression** and a near **lossless** feature. JPEG is an organization of experts nominated by national standards bodies and major companies...

...JPEG, JBIG/JBIG2, and SPIFF standards. JBIG is less widely used than JPEG and offers **lossless compression** of gray-scale and color images. SPIFF has possibilities, but disagreements on implementation have prevented ...

2/3,K/8

DIALOG(R)File 256:TecInfoSource

(c) 2005 Info.Sources Inc. All rts. reserv.

00139026

DOCUMENT TYPE: Review

PRODUCT NAMES: JPEG 2000 (830577); DV-JP2000 (112542)

TITLE: JPEG techniques improve image compression

AUTHOR: Staff

SOURCE: Vision Systems Design, v7 n4 p9(2) Apr 2002

ISSN: 1089-3709

HOME PAGE: <http://www.vision-systems-design.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20020930

...ADV-JP2000 can compress five 3-Mpixel images in 1 s, the ADV-JP2000 provides **lossless compression** of images consisting of up to 10 bits per component. This ability is an improvement on the first JPEG standard, which provided only 8 bits/components without support or **lossless** and lossy **compression** in a single format. Other companies entering the JPEG2000 hardware market with hardware, coreware, and digital signal processor-based solutions include inSilicon, with the JPEG2000 encoder core, with support for **lossless** and lossy **compression** applications and the CS6210 core for still image and video-compression systems where frame-based...

2/3,K/9

DIALOG(R)File 256:TecInfoSource

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00138261

DOCUMENT TYPE: Review

PRODUCT NAMES: Corel PHOTO-PAINT 10 (528978)

TITLE: Optimizing in Corel Photo-Paint 10

AUTHOR: Doyle, Cameron

SOURCE: Digital Imaging, p10(1) Mar 2002

ISSN: 1084-5119

HOME PAGE: <http://www.digitalimaging.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20021130

...for images. GIF provides several advanced graphic options, including transparent backgrounds, interlaced images, and animation. **Lossless compression** stores all information in the image so that the GIF file looks exactly like the...

...palette-based images and can be used to save transparent images and alpha channels. Advanced **lossless compression** is supported to retain all information during the compression process. Users can preview and optimize...

2/3,K/10

DIALOG(R)File 256:TecInfoSource
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00137875 DOCUMENT TYPE: Review

PRODUCT NAMES: Media 100i/xr 7.5 (094447)

TITLE: Media 100 i/xr 7.5

AUTHOR: Leabo, Mark

SOURCE: Digital Video Magazine, v10 n4 p60(3) Apr 2002

ISSN: 1075-251X

HOMEPAGE: <http://www.dv.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20020930

...reliable, and they attribute these advantages to Media 100's stringent hardware requirements. New, optional, **lossless compression** makes the system handle disk space very economically. Several real-time and hardware-accelerated tools...

2/3,K/11

DIALOG(R)File 256:TecInfoSource
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00132458 DOCUMENT TYPE: Review

PRODUCT NAMES: 3D Graphics (838195)

TITLE: The GeForce3: Yes and No

AUTHOR: Ozer, Jan

SOURCE: PC Magazine, v20 n12 p43(1) Jun 26, 2001

ISSN: 0888-8509

HOMEPAGE: <http://www.pcmag.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

REVISION DATE: 20011030

...offers faster frame rates. It also taps the GeForce2 Ultra's hidden-surface removal and **lossless z compression**. These features limit the amount of data processed through systems. Unlike the GeForce2 Ultra, however...

2/3,K/12

DIALOG(R)File 256:TecInfoSource
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00131134 DOCUMENT TYPE: Review

PRODUCT NAMES: Piranha Byte (051144); MrsID (627071); DjVu Solo (046221); Genuine Fractals (687235)

TITLE: NetWorkbook: Graphics Go to the 'Net

AUTHOR: Haegele, Katie

SOURCE: Internet Publishing Magazine, v1 n2 p36(1) Apr 2001

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010830

...such publications as 'Newsweek' and 'BusinessWeek' to printers in Europe and Asia. Piranha Byte uses **lossless data compression** that provides a faithful reproduction of the original file. LizardTech also makes images more bandwidth...

2/3,K/13

DIALOG(R)File 256:TecInfoSource
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00131017 DOCUMENT TYPE: Review

PRODUCT NAMES: JPEG 2000 (830577)

TITLE: JPEG 2000 Has Arrived

AUTHOR: Pulsifer, Allen

SOURCE: Advanced Imaging, v16 n5 p10(4) May 2001

ISSN: 1042-0711

HOME PAGE: <http://www.advancedimagingmag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010830

...40 percent to 60 percent smaller files that do not sacrifice image quality, lossy and **lossless compression**, support for multispectral imager, CMYK format and ICC profiles, a standard file format that includes ...

2/3,K/14

DIALOG(R)File 256:TecInfoSource
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00128612 DOCUMENT TYPE: Review

PRODUCT NAMES: Streaming Media (838845)

TITLE: Full Stream Ahead: A new technology delivers large 3D models...
AUTHOR: Mahoney, Diana Phillips
SOURCE: Computer Graphics World, v24 n1 p14(2) Jan 2001
ISSN: 0271-4159
HOMEPAGE: <http://www.cgw.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20010430

...content stream and the rendering time of the first view. The first technology used is **lossless mesh-compression**, in which geometric information and connectivity information can be maintained. This is accomplished by using...

2/3,K/15

DIALOG(R)File 256:TecInfoSource
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00127585 DOCUMENT TYPE: Review

PRODUCT NAMES: Web Site Design (838543); File Compression (830276)

TITLE: Pay-Per-View: Web Image Economics
AUTHOR: Held, Gilbert
SOURCE: Network Magazine, v15 n10 p90(4) Oct 2000
ISSN: 1093-8001
HOMEPAGE: <http://www.networkmagazine.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

REVISION DATE: 20010330

...site's images smaller will result in reduced monthly charges. Methods described include lossy and **lossless compression**; and manipulation of JPEG images to reduce transmission time and storage costs. Topics covered include...

2/3,K/16

DIALOG(R)File 256:TecInfoSource
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00123701 DOCUMENT TYPE: Review

PRODUCT NAMES: Digital Video (830268); Streaming Media (838845)

TITLE: Digital Video

AUTHOR: Copeland, Lee

SOURCE: Computerworld, v34 n21 p83(1) May 22, 2000

ISSN: 0010-4841

HOME PAGE: <http://www.computerworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20020830

...percent of their original size, and while data is lost, this is usually not discernible. **Lossless compression** does not lose data, but compression is minimal. Streaming video is transmitted in real time...

2/3,K/17

DIALOG(R)File 256:TecInfoSource

(c) 2005 Info.Sources Inc. All rts. reserv.

00115453 DOCUMENT TYPE: Review

PRODUCT NAMES: PhotoJazz 1.0 Windows & PowerMac (747149)

TITLE: BitJazz saves time and space with image compression

AUTHOR: Howard, Courtney E

SOURCE: Electronic Publishing Magazine, v23 n1 p59(1) Jan 1999

ISSN: 1097-9190

HOME PAGE: <http://www.electronic-publishing.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20021230

...process because the larger files are difficult to store and slow to process. The BitJazz **lossless** image **compression** engine preserves image quality. Users save images to the PhotoJazz format, rapidly condensing image files...

2/3,K/18

DIALOG(R)File 256:TecInfoSource

(c) 2005 Info.Sources Inc. All rts. reserv.

00114113 DOCUMENT TYPE: Review

PRODUCT NAMES: Genuine Fractals PrintPro (725285)

TITLE: Genuine Fractals Print Pro: Fast, Flexible Image-Compression Plug-In

AUTHOR: Beale, Stephen

SOURCE: Macworld, p58(1) Mar 1999

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20010630

...The plug-in suffers only from a RAM-hungry appetite, but otherwise shines in providing **lossless** and lossy image **compression** and CMYK support. Replacing the company's Genuine Fractals 1.0, Fractals PrintPro is far...

? show files; ds; save temp; logoff hold
 File 344:Chinese Patents Abs Aug 1985-2005/May
 (c) 2005 European Patent Office
 File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)
 (c) 2005 JPO & JAPIO
 File 350:Derwent WPIX 1963-2005/UD,UM &UP=200537
 (c) 2005 Thomson Derwent

Set	Items	Description
S1	87	FX(3N) (DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-COMPRESS? OR DE()COMPRESS?) (3N) ALGORITHM?
S2	294	LOSSLESS(3N) (PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N) (COMP-RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	323	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR R? OR FISCHER, T? OR FISCHER T?)
S4	1523503	IC=(B41J? OR G06F?)
S5	4	FX(3N) (DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM?)
S6	0	S5 AND S2
S7	4	S1 AND S2

7/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016518911 **Image available**
WPI Acc No: 2004-677294/200466
XRPX Acc No: N04-536857

Method of processing digital file for imaging applications, involves
applying lossless compression to string of bits obtained by
compressing string of bits from file and decompressing compressed string
Patent Assignee: ALCOM ALGORITMI COMPRESSIONE DATI SRL (ALCO-N)
Inventor: CRISCIONE E
Number of Countries: 108 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
WO 200480080 A1 20040916 WO 2004EP1839 A 20040225 200466 B

Priority Applications (No Type Date): IT 2003MO53 A 20030304
Patent Details:

Patent No Kind Ian Pg Main IPC Filing Notes
WO 200480080 A1 E 26 H04N-007/26

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ
CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ
UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR
TZ UG ZM ZW

Method of processing digital file for imaging applications, involves
applying lossless compression to string of bits obtained by
compressing string of bits from file and decompressing compressed...

Abstract (Basic):

... compression method. String of bits (B) is decompressed to a
string of bits (A') using **decompression algorithm** that is dual of
lossy compensation method. String (A') is subtracted from the string A,
to obtain string of bits (C) that is compressed into string of bits (D)
using **lossless compression** method and sequence of strings (B,D) are
stored.

... digital file comprising string of bits using lossy compression
method such as JPEG or JPEG2000 **compression** algorithm and **lossless**
compression method such as predictive coding, Huffman coding,
Ziv-Lempel coding, numeric coding and universal coding...

...Allow to achieve **lossless** data **compression** with higher compression
ratios...

7/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014219441 **Image available**
WPI Acc No: 2002-040139/200205
XRPX Acc No: N02-029665

Data buffering system for printing system, compresses received data

signal and compresses the compressed data signal to generate data signal
for transmission

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: D'AVIS T; DAVENPORT P P; TEKLITS L D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6300885	B1	20011009	US 2000549803	A	20000414	200205 B

Priority Applications (No Type Date): US 2000549803 A 20000414

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6300885	B1	8	H03M-007/00	

Abstract (Basic):

... Lossless compression and decompression algorithms or
hardware is used, hence limited memory resources are maximized

7/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014064871 **Image available**

WPI Acc No: 2001-549084/200161

XRPX Acc No: N01-407811

Compression-decompression method of digital projection radiographic
images, involves generating look-up table based on noise characteristics
of image acquisition system, to reduce bit depth of digital image pixel

Patent Assignee: EASTMAN KODAK CO (EAST)

Inventor: FOOS D H; WHITING B R; YOUNG S S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6269193	B1	20010731	US 98218123	A	19981221	200161 B

Priority Applications (No Type Date): US 98218123 A 19981221

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6269193	B1	11	G06K-009/46	

Abstract (Basic):

... the image using the look-up table and processing of image is
performed using a lossless compression algorithm. The image is
reconstructed using the associated decompression algorithm and the
inverse of companding function is applied to the image.

... Improves compression efficiency over lossless entropy coding
techniques. Provides modest levels of compression by introducing some
error into image. Achieves...

7/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012804295 **Image available**

WPI Acc No: 1999-610525/199952

XRPX Acc No: N99-449841

Codec logic for data transfer in computer system

Patent Assignee: ADVANCED MICRO DEVICES INC (ADMI)

Inventor: BELT S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5974471	A	19991026	US 96684701	A	19960719	199952 B

Priority Applications (No Type Date): US 96684701 A 19960719

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5974471	A	10	G06F-005/00	

Abstract (Basic):

... 122), network interface controller (124) and memory controller (107) includes codec logic which uses a **lossless** compression **algorithm** for **compression** and **decompression** operation. The peripheral devices include codec detection logic for determining whether a destination device includes...

?

? show files; ds; save temp; logoff hold

File 348:EUROPEAN PATENTS 1978-2005/Jun W02

(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2005/UB=20050609,UT=20050602

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Set	Items	Description
S1	1175	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-COMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
S2	1209	LOSSLESS(3N)(PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N)(COMP-RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	200	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR R? OR FISCHER, T? OR FISCHER T?)
S4	163448	IC=(B41J? OR G06F?)
S5	24	S4 AND S3
S6	0	S5 AND S1
S7	148	S1 AND S2
S8	30	S7 AND S4

8/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01904879

Controller for controlling printing on both surfaces of a sheet of print media

Verfahren zur Steuerung des Drucks auf beiden Seiten eines Druckmediums

Procede pour controler l'impression sur les deux cotes d'une feuille

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street,
Balmain, NSW 2041, (AU), (Applicant designated States: all)

INVENTOR:

Silverbrook, Kia Silverbrook Rsrch. Pty. Ltd., 393 Darling Street,
Balmain, NSW 2041, (AU)
Lapstun, Paul Silverbrook Rsrch. Pty. Ltd, 393 Darling Street, Balmain,
NSW 2041, (AU)
Walmsley, Simon Robert Silverbrook Rsrch.Pty.Ltd., 393 Darling Street,
Balmain, NSW 2041, (AU)
King, Tobin Silverbrook Rsrch. Pty. Ltd., 393 Darling Street, Balmain,
NSW 2041, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1535738 A1 050601 (Basic)

APPLICATION (CC, No, Date): EP 2004105963 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1150844 (EP 99957742)

INTERNATIONAL PATENT CLASS: B41J-002/00 ; B41J-002/175 ; B41J-002/155 ;
B41J-029/02 ; B41J-003/60 ; B41J-003/42 ; B41J-029/393

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200522	348
SPEC A	(English)	200522	26468
Total word count - document A			26816
Total word count - document B			0
Total word count - documents A + B			26816

INTERNATIONAL PATENT CLASS: B41J-002/00 ...

... B41J-002/175 ...

... B41J-002/155 ...

... B41J-029/02 ...

... B41J-003/60 ...

... B41J-003/42 ...

... B41J-029/393

...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB, requiring a **lossless compression** ratio of less than 2.5:1 to fit within the 3MB/page limit. We...wrong" match to have a detrimental effect on the compression ratio. For completeness the corresponding **decompression algorithm** is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The **decompression algorithm** is defined in Section 6.2.3.2.

The EEU 188 consists of a bitstream...

8/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01878813

Print engine including means for inhibiting ink evaporation

Druckwerk mit Vorrichtung zur Verhinderung des Verdunstens von Tinte

Appareil d'impression avec dispositif pour empêcher l'évaporation de l'encre

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street,
Balmain, NSW 2041, (AU), (Applicant designated States: all)

INVENTOR:

Silverbrook, Kia, Silverbrook Research Pty. Limited 393 Darling St.,
Balmain 2041, NSW, (AU)

Lapstun, Paul, Silverbrook Research Pty. Limited 393 Darling St., Balmain
2041, NSW, (AU)

Walmsley, Simon Robert, Silverbrook Research Pty. Limited 393 Darling St.,
Balmain 2041, NSW, (AU)

King, Tobin, Silverbrook Research Pty. Limited 393 Darling St., Balmain
2041, NSW, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1520700 A2 050406 (Basic)
EP 1520700 A3 050427

APPLICATION (CC, No, Date): EP 2004105966 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1150844 (EP 99957742)

INTERNATIONAL PATENT CLASS: B41J-002/00 ; B41J-002/175 ; B41J-002/155 ;
B41J-029/02 ; B41J-003/60 ; B41J-003/42 ; B41J-002/165

ABSTRACT WORD COUNT: 124

NOTE:

Figure number on first page: 13

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200514	416
SPEC A	(English)	200514	26449
Total word count - document A			26865
Total word count - document B			0

Total word count - documents A + B 26865
INTERNATIONAL PATENT CLASS: B41J-002/00 ...

... B41J-002/175 ...

... B41J-002/155 ...

... B41J-029/02 ...

... B41J-003/60 ...

... B41J-003/42 ...

... B41J-002/165

...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB, requiring a **lossless compression** ratio of less than 2.5:1 to fit within the 3MB/page limit. We...wrong" match to have a detrimental effect on the compression ratio. For completeness the corresponding **decompression algorithm** is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The **decompression algorithm** is defined in Section 6.2.3.2.

The EEU 188 consists of a bitstream...

8/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01878812

Digital printing system for printing on both surfaces of a sheet of print media

Digitales Drucksystem zum Druck auf beiden Seiten des Blattes

Systeme d'impression digital pour l'impression sur les deux cotes d'une feuille

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street, Balmain, NSW 2041, (AU), (Applicant designated States: all)

INVENTOR:

Silverbrook, Kia, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

Lapstun, Paul, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

Walmsley, Simon Robert, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

King, Tobin, Silverbrook Research Pty. Ltd. 393 Darling Street, Balmain, NSW 2041, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road, Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1520699 A2 050406 (Basic)
EP 1520699 A3 050420

APPLICATION (CC, No, Date): EP 2004105965 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU 99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1150844 (EP 99957742)

INTERNATIONAL PATENT CLASS: B41J-002/00 ; B41J-002/175 ; B41J-002/155 ;
B41J-029/02 ; B41J-003/60 ; B41J-003/42 ; B41J-002/165

ABSTRACT WORD COUNT: 112

NOTE:

Figure number on first page: 13

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200514	609
SPEC A	(English)	200514	26480
Total word count - document A			27089
Total word count - document B			0
Total word count - documents A + B			27089

INTERNATIONAL PATENT CLASS: B41J-002/00 ...

... B41J-002/175 ...

... B41J-002/155 ...

... B41J-029/02 ...

... B41J-003/60 ...

... B41J-003/42 ...

... B41J-002/165

...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB,
requiring a **lossless compression** ratio of less than 2.5:1 to fit
within the 3MB/page limit. We...

...wrong" match to have a detrimental effect on the compression ratio. For
completeness the corresponding **decompression algorithm** is given
below. It forms the core of the EDRL Expander unit in the printer...of
one bits or zero bits which represent the corresponding part of the
image. The **decompression algorithm** is defined in Section 6.2.3.2.
The EEU 188 consists of a bitstream...

8/3,K/4 (Item 4 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01878811

Method of controlling printing on both surfaces of a sheet of print media

Verfahren zur Steuerung des Drucks auf beiden Seiten eines Druckmediums

Procede pour controler l'impression sur les deux cotes d'une feuille

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street,
Balmain, NSW 2041, (AU), (Applicant designated States: all)

INVENTOR:

Silverbrook, Kia, Silverbrook Research Pty. Limited 393 Darling St.,
Balmain, NSW, New South Wales 2041, (AU)

Lapstun, Paul, Silverbrook Research Pty. Limited 393 Darling St.,

Balmain, NSW, New South Wales 2041, (AU)
Walmsley, Simon Robert, Silverbrook Research Pty. Limited 393 Darling St.
, Balmain, NSW, New South Wales 2041, (AU)
King, Tobin, Silverbrook Research Pty. Limited 393 Darling St., Balmain,
NSW, New South Wales 2041, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1520698 A2 050406 (Basic)
EP 1520698 A3 050427

APPLICATION (CC, No, Date): EP 2004105962 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1150844 (EP 99957742)

INTERNATIONAL PATENT CLASS: B41J-002/00 ; B41J-002/175 ; B41J-002/155 ;
B41J-029/02 ; B41J-003/60 ; B41J-003/42 ; B41J-029/393

ABSTRACT WORD COUNT: 125

NOTE:

Figure number on first page: 13

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200514	306
SPEC A	(English)	200514	26478
Total word count - document A			26784
Total word count - document B			0
Total word count - documents A + B			26784

INTERNATIONAL PATENT CLASS: B41J-002/00 ...

... B41J-002/175 ...

... B41J-002/155 ...

... B41J-029/02 ...

... B41J-003/60 ...

... B41J-003/42 ...

... B41J-029/393

...SPECIFICATION text at 800 dpi. This yields a bi- level image of 7.4MB,
requiring a **lossless compression** ratio of less than 2.5:1 to fit
within the 3MB/page limit. We...wrong" match to have a detrimental effect
on the compression ratio.

For completeness the corresponding **decompression algorithm** is given
below. It forms the core of the EDRL Expander unit in the printer...of
one bits or zero bits which represent the corresponding part of the
image. The **decompression algorithm** is defined in Section 6.2.3.2..

The EEU 188 consists of a bitstream...

DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01878810

Print engine including transfer roller

Druckwerk mit Transferwalze

Appareil d'impression avec rouleaux de transfert

PATENT ASSIGNEE:

Silverbrook Research Pty. Limited, (2699020), 393 Darling Street,
Balmain, NSW 2041, (AU), (Applicant designated States: all)

INVENTOR:

Silverbrook, Kia, Silverbrook Research Pty. Limited 393 Darling St.,
Balmain 2041, NSW, (AU)
Lapstun, Paul, Silverbrook Research Pty. Limited 393 Darling St., Balmain
2041, NSW, (AU)
Walmsley, Simon Robert, Silverbrook Research Pty. Limited 393 Darling St.,
Balmain 2041, NSW, (AU)
King, Tobin, Silverbrook Research Pty. Limited 393 Darling St., Balmain
2041, NSW, (AU)

LEGAL REPRESENTATIVE:

Moore, Barry et al (126142), Hanna, Moore & Curley, 11 Mespil Road,
Dublin 4, (IE)

PATENT (CC, No, Kind, Date): EP 1520697 A2 050406 (Basic)
EP 1520697 A3 050420

APPLICATION (CC, No, Date): EP 2004105961 991118;

PRIORITY (CC, No, Date): AU 98PP7737 981216; AU 98PP7738 981216; AU
99PP9961 990423; AU 99PP9962 990423

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1150844 (EP 99957742)

INTERNATIONAL PATENT CLASS: **B41J-002/00 ; B41J-002/175 ; B41J-002/155 ;
B41J-029/02 ; B41J-003/60 ; B41J-003/42**

ABSTRACT WORD COUNT: 90

NOTE:

Figure number on first page: 13

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200514	253
SPEC A	(English)	200514	26449
Total word count - document A			26702
Total word count - document B			0
Total word count - documents A + B			26702

INTERNATIONAL PATENT CLASS: **B41J-002/00 ...**

... **B41J-002/175** ...

... **B41J-002/155** ...

... **B41J-029/02** ...

... **B41J-003/60** ...

... **B41J-003/42**

...SPECIFICATION text at 800 dpi. This yields a bi-level image of 7.4MB,

requiring a **lossless compression** ratio of less than 2.5:1 to fit within the 3MB/page limit. We...wrong" match to have a detrimental effect on the compression ratio.

For completeness the corresponding **decompression algorithm** is given below. It forms the core of the EDRL Expander unit in the printer...of one bits or zero bits which represent the corresponding part of the image. The **decompression algorithm** is defined in Section 6.2.3.2.

The EEU 188 consists of a bitstream...

8/3,K/6 (Item 6 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01184348

Disk-based image storage system and method with prioritized loading and retrieval operations

Festplatten-Bildspeichersystem und Verfahren mit vorrangigen Lade- und Wiederauffindvorgangen

Systeme et methode de stockage d'image base sur disque avec operations de chargement et d'extraction a priorite

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York 14650, (US), (Applicant designated States: all)

INVENTOR:

Gerstenberger, Jeffrey S. c/o Eastman Kodak Comp., Patent Legal Staff 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent Department, W92-3A, Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 1031915 A2 000830 (Basic)

APPLICATION (CC, No, Date): EP 200481 000214;

PRIORITY (CC, No, Date): US 258993 990226

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT WORD COUNT: 261

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200035	2053
SPEC A	(English)	200035	7664
Total word count - document A			9717
Total word count - document B			0
Total word count - documents A + B			9717

INTERNATIONAL PATENT CLASS: G06F-003/12

...SPECIFICATION storage subsystem 14 where they are compressed by the image compressor 20 using preferably a **lossless image compression** algorithm. The particular compression algorithm used is not significant to the invention, and algorithms such as Lempel-Ziv, Group 4 FAX, or other **lossless compression** algorithm can be used. A **lossless**

compression algorithm is used so that the original input image is exactly reproduced when the image...used in the compressor 20 impacts the bandwidth required for the disk storage module 24. **Lossless compression** algorithms typically **compress** images by a ratio of at least 2:1, and compression ratios of 10:1...

...marking engine subsystem 16 is 9.8 megabytes per second (MB/s). Since the compressor/ **decompressor** 54 uses an **algorithm** that expands worst-case images by a ratio of 8:9, the disk storage module...

8/3,K/7 (Item 7 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00966558

Compressed representation of a data base that permits ad hoc querying
Komprimierte Datenbankdarstellung, die ad hoc Abfrage ermöglicht
Representation comprimée d'une base de données permettant l'interrogation ad hoc

PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412,
(US), (applicant designated states: DE;FR;GB)

INVENTOR:

Faloutsos, Christos N., 12912 Goodhill Road, Silver Spring, Maryland
20906, (US)

Jagadish, Hosagrahar Visvesvaraya, 16 Beech Avenue, Berkeley Heights, New
Jersey 07922, (US)

Korm, Philip Russell, 8125 48th Avenue No. 203, College Park, Maryland
20740, (US)

LEGAL REPRESENTATIVE:

Asquith, Julian Peter et al (76431), Marks & Clerk, 4220 Nash Court,
Oxford Business Park South, Oxford OX4 2RU, (GB)

PATENT (CC, No, Kind, Date): EP 877325 A1 981111 (Basic)

APPLICATION (CC, No, Date): EP 98302669 980406;

PRIORITY (CC, No, Date): US 848454 970508

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT WORD COUNT: 79

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9846	666
SPEC A	(English)	9846	4369
Total word count - document A			5035
Total word count - document B			0
Total word count - documents A + B			5035

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION least large portions of the data base before a query can be executed.

Algorithms for **lossless compression** are available (e.g., gzip, based on the well-known Lempel-Ziv algorithm, Huffman coding, arithmetic coding, etc.). These **lossless compression algorithms** require **decompression** of part or all of the data base before a query can be performed. While **lossless compression** achieves fairly good

compression, the difficulty with this technique has to do with reconstruction of...smaller one from which an acceptable approximation of the original data can be constructed. Alternatively, **lossless** data base **compression** transforms a body of data into a smaller body of data from which it is possible to exactly and uniquely recover the original data. While **lossless** data base **compression** provides for an exact representation of the data base it requires more memory. Thus, lossy...

8/3,K/8 (Item 8 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

00716993

Data compression method and system

Datenkompressionsverfahren und System

Procede et systeme de compression des donnees

PATENT ASSIGNEE:

SETA CO., LTD., (1936671), 3-1-25, Ariake, Koto-ku, Tokyo, (JP),
(Proprietor designated states: all)

INVENTOR:

Watanabe, Hiroyuki, c/o Seta Co., Ltd., 35-1, Nishi-Kamata 7-chome,
Ohta-ku, Tokyo 144, (JP)

LEGAL REPRESENTATIVE:

Prufer, Lutz H., Dipl.-Phys. et al (38295), PRUFER & PARTNER,
Patentanwalte, Harthausen Strasse 25d, 81545 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 678986 A1 951025 (Basic)

EP 678986 B1 000712

APPLICATION (CC, No, Date): EP 95106020 950421;

PRIORITY (CC, No, Date): JP 94107837 940422

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H03M-007/42; **G06F-005/00**

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	200028	774
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CLAIMS B	(German)	200028	683
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CLAIMS B	(French)	200028	890
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SPEC B	(English)	200028	5169
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Total word count - document A	0
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Total word count - document B	7516
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Total word count - documents A + B	7516
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...INTERNATIONAL PATENT CLASS: **G06F-005/00**

...ABSTRACT A1

A **lossless** type data **compression** method employing a dictionary system is suitable for character generator of a game machine and...

8/3,K/9 (Item 9 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

00632495

Video compression/decompression using discrete cosine transformation.
Video-Kompression und Dekompression mit Anwendung der diskreten
Cosinustransformation.
Compression et décompression de signaux vidéo utilisant la transformée
discrete du cosinus.

PATENT ASSIGNEE:

INTEGRATED INFORMATION TECHNOLOGY, INC.,, (1621950), 2445 Mission College
Blvd.,, Santa Clara, California 95054, (US), (applicant designated
states: DE)

INVENTOR:

Fandrianto, Jan, 511 Santa Rose Drive, Los Gatos, California 95032, (US)
Wang, Chi Shin, 27900 Altamont Circle, Los Altos Hills, California 94022
, (US)

Rainnie, Hedley K. J., 2200 Monroe Street, No. 807, Santa Clara,
California 95050, (US)

Sutardja, Sehat, 11572 Seven Springs Drive, Cupertino, California 95014,
(US)

Martin, Bryan R., 580 Sobrato Drive, Campbell California 95008, (US)

LEGAL REPRESENTATIVE:

Jones, Ian (32444), W.P. THOMSON & CO. Celcon House 289-293 High Holborn,
London WC1V 7HU, (GB)

PATENT (CC, No, Kind, Date): EP 615199 A1 940914 (Basic)

APPLICATION (CC, No, Date): EP 93301902 930312;

PRIORITY (CC, No, Date): EP 93301902 930312

DESIGNATED STATES: DE

INTERNATIONAL PATENT CLASS: G06F-015/332 ; G06F-007/544

ABSTRACT WORD COUNT: 219

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	1953
SPEC A	(English)	EPABF2	11420
Total word count - document A			13373
Total word count - document B			0
Total word count - documents A + B			13373

INTERNATIONAL PATENT CLASS: G06F-015/332 ...

... G06F-007/544

...SPECIFICATION these compression techniques, as well as other techniques
for voice mail and annotation and for **lossless** data **compression** of
arbitrary binary files to be stored to disk or communicated to other
computers. Moreover...

...CLAIMS method of selectively compressing or decompressing digitized
video data in accordance with a video compression / **decompression**
algorithm utilizing the discrete cosine transform ("DCT") function,
comprising the steps of:
storing first data derived...

...method of selectively compressing or decompressing digitized video data
in accordance with a video compression / **decompression** **algorithm**
utilizing the discrete cosine transform ("DCT") function, comprising
the steps of:
storing first data derived...

...decompressing digitized video data stored in an external memory in accordance with a video compression / **decompression algorithm** utilizing the discrete cosine transform ("DCT") function, comprising:
a programmable controller;
a motion calculation path...decompressing digitized video data stored in an external memory in accordance with a video compression / **decompression algorithm** utilizing the discrete cosine transform ("DCT") function, comprising:
a programmable controller;
a motion calculation path...

8/3,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00573274

Image data compression.

Bilddatenkompression.

Compression de donnees d'image.

PATENT ASSIGNEE:

ACORN COMPUTERS LIMITED, (907950), Fulbourn Road, Cherry Hinton Cambridge
CB1 4JN, (GB), (applicant designated states: DE;FR;GB;IT;NL)

INVENTOR:

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PATENT (CC, No, Kind, Date): EP 569207 A2 931110 (Basic)
EP 569207 A3 941117

APPLICATION (CC, No, Date): EP 93303442 930504;

PRIORITY (CC, No, Date): GB 9209646 920505

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-015/64

ABSTRACT WORD COUNT: 182

LANGUAGE (Publication,Procedural,Application): English; English; English
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CLAIMS A	(English)	EPABF1	966
SPEC A	(English)	EPABF1	6027
Total word count - document A			6993
Total word count - document B			0
Total word count - documents A + B			6993

INTERNATIONAL PATENT CLASS: G06F-015/64

...SPECIFICATION an acceptable quality to 5000 bytes per frame requires the use of sophisticated compression and **decompression algorithms** which in turn place high demands upon the processing capacity of the computer system. Furthermore...factor around 7 in order to reach the CD-ROM data bandwidth target, no known **lossless compression** scheme is capable of this factor of compression and accordingly a lossy compression scheme is ...

8/3,K/11 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01221975 **Image available**

METHOD AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A THIN CLIENT

PROCEDE ET DISPOSITIF DESTINES A GENERER DES AFFICHAGES GRAPHIQUES ET MULTIMEDIA AU NIVEAU D'UN CLIENT

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200529864 A1 20050331 (WO 0529864)

Application: WO 2004US29993 20040913 (PCT/WO US04029993)

Priority Application: US 2003502576 20030912; US 2003510461 20031010

Designated States:

(All protection types applied unless otherwise stated - for applications
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 18086

International Patent Class: **G06F-017/30** ...

... **G06F-003/14**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... available to the server agent 150 for the compression of the
uncompressed representation include lossless **compression** algorithms and
lossy **compression** algorithms. **Lossless compression** algorithms

reduce the size of the uncompressed representation without the loss of information contained in...

...large areas of the same color, e.g., a computer-generated image, and applies a **lossless compression** algorithm. In yet another embodiment, the number of colors contained in the pixels of the...
...00511 In still another embodiment, the server agent 150 compresses the uncompressed representation using a **lossless compression** algorithm and compares the size of the compressed result to a predetermined value. When the...

...compression is less than a predetermined percentage of the size of the result of the **lossless compression**, then the lossy compression algorithm is selected.

[00521 The client agent 175 receives the transmission...the client node 105 has the appropriate graphics library(ies). 180 installed to perform the **decompression algorithms**, the client agent 175 uses the library 180 to decompress the compressed format of the...

...145.

- 14

[00541 In one embodiment, the client agent 175 does not contain all the **decompression algorithms** to **decompress** the non-textual element from a compressed format into a bitmap representation. If the client node 1105 does not have the appropriate graphics library(ics) 180 installed to perform the **decompression algorithms**, the client agent 175 requests the needed graphics library from the server node 11...456, the intercepted first decompressed data set. A variety of compression techniques, including both lossy **compression** techniques and **lossless compression** techniques, may be used by the second output filter module 355B, at step 456, to...

Claim

... place of the decompressed data set.

22 The method of claim 21 wherein the identified **compression** technique is a **lossless compression** technique.

23 The method of claim 22 wherein the non-textual element is an image...
...textual element is a computer-generated image.

25 The method of claim 22 wherein the **lossless compression** technique is 2DRLE compression.

26 The method of claim 21 wherein the identified compression technique...
...claim 21 wherein identifying a compression technique comprises:
compressing the decompressed data set using a **lossless compression** technique to
form a first test data set;
comparing the size of the first test...

...31 The method of claim 21 wherein identifying a compression technique comprises applying image processing **algorithms** to the **decompressed** data set to determine if the non-textual element is photographic and selecting a lossy...

...32 The method of claim 21 wherein identifying a compression technique comprises applying image processing **algorithms** to the **decompressed** data set to determine if the non-textual element is continuous tone and selecting a...

...place of the decompressed data set.

35 The system of claim 34 wherein the identified **compression** technique is a **lossless compression** technique.

36 The system of claim 35 wherein the non-textual element is an image...
...textual element is a computer-generated image.

38 The system of claim 35 wherein the **lossless compression** technique is 2DRLE compression.

39 The system of claim 34 wherein the identified compression technique...

...output filter module identifies a compression technique by compressing the decompressed data set using a **lossless compression** technique to form a first test data set, comparing the size of the first test...

...claim 34 wherein the output filter module identifies a compression technique by applying image processing **algorithms** to the **decompressed** data set to determine if the non-textual element is photographic and selecting a lossy...

...claim 34 wherein the output filter module identifies a compression technique by applying image processing **algorithms** to the **decompressed** data set to determine if the non-textual element is continuous tone and selecting a...

8/3,K/12 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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01129704

DEAD NOZZLE COMPENSATION

COMPENSATION D'UNE BUSE HORS ETAT DE FONCTIONNEMENT

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Patent and Priority Information (Country, Number, Date):
Patent: WO 200450369 A1 20040617 (WO 0450369)
Application: WO 2003AU1616 20031202 (PCT/WO AU03001616)
Priority Application: AU 2002953134 20021202; AU 2002953135 20021202
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU
SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 387411

Main International Patent Class: **B41J-002/01**

Fulltext Availability:
Claims

Claim

... bi-level data has a size of 29.5 MB. Coherent data such as text **compresses** very well. Using **lossless** bilevel **compression** algorithms such as SMG4 fax as discussed in Section 8 2 1, ten-point plain text compresses with a ratio of about 50:1. **Lossless** bi-level **compression** across an average page is about 20:1 with 10:1 possible for pages which ...

...of CMYK contone image data consists of 1 1 6MB of bi-level data. Using **lossless** bi-level **compression** algorithms on this data is pointless precisely because the optimal dither is stochastic - i.e...
...layer compressed page image format therefore exploits the relative strengths of lossy JPEG contone image **compression**, **lossless** bi-level text **compression**, and tag encoding. The format is compact enough to be storage-efficient, and simple enough...contone to DRAM
CFU Contone FIFO Unit Provides line buffering between CDU and HCU
LBD **Lossless** Bi-level Expands **compressed** bi-level layer.
Decoder
SFU Spot FIFO Unit Provides line buffering between LBD and HCU...

8/3,K/13 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01123420 **Image available**

MULTICAST VIDEOCONFERENCING
VIDEOCONFERENCE EN MULTIDIFFUSION

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200444710 A2-A3 20040527 (WO 0444710)

Application: WO 2003US36349 20031112 (PCT/WO US03036349)

Priority Application: US 2002425621 20021111

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD
SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 28056

Main International Patent Class: G06F-015/16

Fulltext Availability:

Detailed Description

Detailed Description

... as, WAN, LAN, CAN, WAP, is achieved using unicast technology. Unicast
depends on compression and **decompression algorithms** in order to
transmit vast amounts of video/audio data. Further, unicast requires
delay times...

...and transmission but it requires greater processing power when encoding
and decoding algorithms are applied.

Lossless techniques create **compressed** files first and then
decompresses the file into exactly the same file as the original...

8/3,K/14 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01050139

METHODS AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A CLIENT

PROCEDES ET DISPOSITIFS POUR PRODUIRE DES PRESENTATIONS DE GRAPHIQUES ET D'ELEMENTS DE MEDIA CHEZ UN CLIENT

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200379212 A1 20030925 (WO 0379212)

Application: WO 2003US7965 20030314 (PCT/WO US0307965)

Priority Application: US 200298157 20020314

Designated States:

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prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE
SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 15775

Main International Patent Class: **G06F-015/16**

International Patent Class: **G06F-013/00**

Fulltext Availability:

Detailed Description

Detailed Description

... the client node 105 has the appropriate graphics library(ies) 180
installed to perform the **decompression algorithms**, the client agent
175 uses the library 180 to decompress the compressed format of the...
display 145.

[00491 In one embodiment, the client agent 175 does not contain all the
decompression algorithms to **decompress** the non-textual element from
a compressed format into a bitmap representation. If the client node 105

does not have the appropriate graphics library(ies) 180 installed to perform the **decompression algorithms**, the client agent 175 requests the needed graphics library from ...456, the intercepted first decompressed data set.

A variety of compression techniques, including both lossy **compression** techniques and **lossless compression** techniques, may be used by the second output filter module 35513, at step 456, to...

8/3,K/15 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00997881 **Image available**

SYSTEM AND METHOD FOR COMMUNICATING MEDIA SIGNALS

SYSTEME ET PROCEDE DE COMMUNICATION DE SIGNAUX MULTIMEDIA

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200327876 A1 20030403 (WO 0327876)

Application: WO 2002US30874 20020926 (PCT/WO US0230874)

Priority Application: US 2001325483 20010926

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 33236

Main International Patent Class: **G06F-015/16**

Fulltext Availability:

Detailed Description

Detailed Description

... has been developed for public consumption and development. Similar to GIF, PNG is considered a "**lossless compression**" format, and therefore all image information is restored when a compressed -file is decompressed...into a preferred source input format for compression using a combination of unique lossy and **lossless digital compression** techniques including sub-band coding, wavelet transforms, motion detection, run length coding and variable length...neural networks for the purpose of error correction during use of certain 15 specified **lossless compression CODECS**. For example, a learning system is employed to determine a difference between what was...instead of the

pulse code modulation ('PCM') and filtering used by standard CDs. DSD uses **lossless compression** and a sampling rate of about 2.8 Mhz to improve the complexity and realism...video signal) and with externally imposed constraints to optimally choose a preferred commercially available compression/ **decompression algorithm** (e.g. CODEC) for each segment of the data. The system 400 then ...device decompresses the data stream that is composed of segment-by-segment variations in compression/ **decompression algorithm** and settings thereof. Dependent upon the terminal device 10 configuration, and especially for very thin clients, instructions may be refreshed on a segment-by-segment basis for each **decompression algorithm** and encoding setting combination. Instructions for decompressing may also be kept resident if appropriate to...

8/3,K/16 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00991779 **Image available**

**A SYSTEM AND METHOD FOR PROTECTING THE CONTENT OF DIGITAL CINEMA PRODUCTS
SYSTEME ET PROCEDE DE PROTECTION DU CONTENU DE PRODUITS CINEMATOGRAPHIQUES
NUMERIQUES**

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200321861 A1 20030313 (WO 0321861)

Application: WO 2002US27842 20020830 (PCT/WO US0227842)

Priority Application: US 2001316020 20010831

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7532

International Patent Class: **G06F-011/30**

Fulltext Availability:

Detailed Description

Detailed Description

... The present state of the art for the content protection of digital cinema products uses **lossless compression**, 128 bit block cipher decryption at rates ...the digital cinema product was compressed 162, the user then uses the previously selected compression **algorithm** 165 to **decompress** the digital cinema product 170. Otherwise, no decompression of the digital cinema product is required...

8/3,K/17 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00988589 **Image available**

PRINTER INCLUDING PRINTHEAD CAPPING MECHANISM

IMPRIMANTE COMPRENANT UN MECANISME DE COIFFE DE TETE D'IMPRESSION

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200318316 A1 20030306 (WO 0318316)

Application: WO 2002AU1060 20020806 (PCT/WO AU0201060)

Priority Application: US 2001942603 20010831

Designated States:

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prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 26953

Main International Patent Class: **B41J-002/165**

Fulltext Availability:

Detailed Description

Detailed Description

... fully acceptable 800 dpi. This yields a bi-level image of 7. IMB,
requiting a **lossless compression** ratio of less than 2.5: 1 to fit
within the 3MB/page limit. We...of one bits or zero bits which represent
the corresponding part of the image. The **decompression algorithm** is
also defined
in Section 5 3
to The EEU

8/3,K/18 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00908856 **Image available**

SYSTEM AND METHOD FOR VIRUS PROTECTION IN REAL-TIME MEDIA

SYSTEME ET PROCEDE DE PROTECTION CONTRE LES VIRUS DE MEDIAS TEMPS REEL

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200242879 A2-A3 20020530 (WO 0242879)

Application: WO 2001US45125 20011024 (PCT/WO US0145125)

Priority Application: US 2000699292 20001027

Designated States:

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prior to 2004)

AE AI AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 2649

Main International Patent Class: **G06F-011/30**

Fulltext Availability:

Detailed Description

Detailed Description

... or video information needs to be compressed and optimized with various
codecs I 0 (compression- **decompression** encoding **algorithms**).

Compression schemes can be classified as "lossy" or " **lossless** ." Lossy
compression schemes reduce file size by discarding some amount of data
during the encoding process before...

...lies in the smaller file size that results from discarding the "lost"
information. In contrast, **lossless compression** squeezes data into
smaller packets of information without permanently discarding any of the
data. Instead of permanently discarding information, for example,
lossless compression discards it temporarily but provides a "map" with
which the codec can reconstruct the original file. Both "lossy" and "
lossless " **compression** may be used by various streaming protocols.

Due to the electronic nature of the Internet...

8/3,K/19 (Item 9 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00895520 **Image available**

ENHANCED BOOLEAN PROCESSOR WITH PARALLEL INPUT

PROCESSEUR BOOLEEN A ENTREE PARALLELE AMELIORE

Patent Applicant/Assignee:

WHAMTECH L P, Suite 504, 8140 Walnut Hill Lane, Dallas, TX 75231, US, US
(Residence), US (Nationality)

Inventor(s):

ROSS Jay Bruce, 275 Colt Street, Pennington, NJ, US,

Legal Representative:

HOWISON Gregory M (et al) (agent), Howison, Chauza, Thoma, Handley &
Arnott, L.L.P., P.O. Box 741715, Dallas, TX 75374-1715, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200229643 A1 20020411 (WO 0229643)

Application: WO 2001US31714 20011005 (PCT/WO US0131714)

Priority Application: US 2000684761 20001006

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 35643

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... not only displaces available bandwidth, but also requires
significantly more storage space. However, a compression/ **decompression**
algorithm which is cumbersome to implement may actually offset any gains
obtained by compressing the information...

...provides significant data compression for repeating characters or
patterns. It uses very simple compression and **decompression algorithms**
. Most run-length compression schemes are usually based on Huffman
entropy coding techniques. A Huffman code is a **lossless** data
compression algorithm which uses a small number of bits to encode common
characters.

2

Huffman coding...

8/3,K/20 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00877759

SYSTEM AND METHOD FOR SERVING COMPRESSED CONTENT OVER A COMPUTER NETWORK
SYSTEME ET PROCEDE PERMETTANT DE PRENDRE EN CHARGE UN CONTENU COMPRESSE SUR
UN RESEAU INFORMATIQUE

Patent Applicant/Assignee:

REMOTE COMMUNICATIONS INC, 10721 Monaco Street, Littleton, CO 80124, US,
US (Residence), US (Nationality), (For all designated states except:
US)

Patent Applicant/Inventor:

CRANSTONE Peter J, 10721 Monaco Street, Littleton, CO 80124, US, US
(Residence), US (Nationality), (Designated only for: US)
KILEY Kevin J, Route 1, Box 325 B-1, Bigelow, AZ 72016, US, US
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

COPPOLA Joseph V Sr (et al) (agent), Rader, Fishman and Grauer PLLC,
Suite 140, 39533 Woodward Avenue, Bloomfield Hills, MI 48304, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200210929 A1 20020207 (WO 0210929)
Application: WO 2001US23490 20010726 (PCT/WO US0123490)
Priority Application: US 2000221411 20000728; US 2000703330 20001031

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10073

Main International Patent Class: G06F-013/00

Fulltext Availability:

Detailed Description
Claims

Detailed Description

... be provided as an adjunct to browser 30. Client module 28 provides a plurality of **decompression algorithms** corresponding to the compression routines available to compression server 24.

The decompressers may be public...

...described below, the architecture of server 24 and client module 28 make adding new compression/ **decompression algorithms** straightforward and fast--no change to web server 18 or user-agent 30 is required...The compression/decompression capabilities implemented on server 24 and user-agent 30, respectively, are generally **lossless** type **compression** approaches. That is, where data is concerned, exact recovery of the requested object at the...

...a lossy compression scheme (e.g., for a jpeg image file, *.JPG). The default is **lossless**.

In step 48, **compression** server 24 determines a line speed associated with useragent 30. It is desirable for compression...

Claim

... of the object in the compression time.

10 The method of claim I wherein the **compression** is **lossless**. It. The method of claim I wherein a client computer on which the user-agent...

8/3,K/21 (Item 11 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00791003 **Image available**

DCT DOMAIN CONVERSION OF A VIDEO SIGNAL TO A LOWER DEFINITION SIGNAL
CONVERSION DE DOMAINE TCD D'UN SIGNAL VIDEO EN UN SIGNAL A DEFINITION
REDUITE

Patent Applicant/Assignee:

CONEXANT SYSTEMS INC, 4311 Jamboree Road, Newport Beach, CA 92660, US, US
(Residence), US (Nationality)

Inventor(s):

AZADEGAN Faramarz, Apartment 447, 5365 Toscana Way, San Diego, CA 92122,
US,
LENGWEHASATIT Krisda, 1177 W. 28th Street, #5, Los Angeles, CA 90007, US,

Legal Representative:

RITTMASER Ted R (agent), Foley & Lardner, Suite 3500, 2029 Century Park
East, Los Angeles, CA 90067-3021, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200124532 A1 20010405 (WO 0124532)
Application: WO 2000US26662 20000928 (PCT/WO US0026662)
Priority Application: US 99409823 19990930
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 12812

...International Patent Class: **G06F-017/14**

Fulltext Availability:

Detailed Description

Detailed Description

... of an embodiment of the present

invention,

Figure 21 is an illustration of an exemplary **lossless compression** of
reference frames for motion compensation, in accordance with the
principles of an
embodiment of...between different
MPEG-2 signals. Thus, this quantization must be removed, in order for the
decompression hardware and **algorithms** to operate on a uniform
bitstream.

After the coefficients are inversely quantized, they are coupled...

8/3,K/22 (Item 12 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00732607

PROGRESSIVE COMPRESSION OF TRIANGULAR MESHES
COMPRESSION PROGRESSIVE DE MAILLAGES TRIANGULAIRES

Patent Applicant/Assignee:

RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH AND INDUSTRIAL
DEVELOPMENT LTD, P.O. Box 39296, 61392 Tel Aviv, IL, IL (Residence), IL
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

COHEN-OR Daniel, Elazar Street 3, 45242 Hod Hasharon, IL, IL (Residence),
IL (Nationality), (Designated only for: US)
REMEZ Offir, Haharoshet Street 2, 52568 Ramat Gan, IL, IL (Residence), IL
(Nationality), (Designated only for: US)

Legal Representative:

FRIEDMAN Mark M, Beit Samuellof, Haomanim 7, 67897 Tel Aviv, IL
Patent and Priority Information (Country, Number, Date):

Patent: WO 200045237 A2 20000803 (WO 0045237)

Application: WO 2000IL53 20000127 (PCT/WO IL00000053)

Priority Application: US 99117426 19990127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4669

Main International Patent Class: G06F

Fulltext Availability:

Detailed Description

French Abstract

...approximation. En outre, on associe aux triangles de remplacement un
code couleur. On repete l' **algorithme de compression** autant de fois
que necessaire. Afin de reconstruire la representation maillee originale,
pour chaque remplacement...

Detailed Description

... as large as the geometry data.

Mesh compression algorithms are normally required to use a **lossless
compression** of the connectivity data.

Current mesh compression methods are based on the triangle-strips
technique...

...terms of the number of triangles representing the mesh at various levels
of detail. However, **lossless compression** methods of 3D meshes, which
compress in terms of the total number of bits required...with a
corresponding patch, and thereby producing a compressed mesh.

The present invention is a **lossless compression** method based on a
multiresolution decomposition where the detail coefficients have a
compact representation and...vector is [Mi] the number of triangles of
the mesh, Mi. The vector is then **compressed** by some lossless
compression technique. The preferred **lossless compression** technique
is an LZ encoder.

During reconstruction, for each recovered patch we remove its triangles

...

8/3,K/23 (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00572302 **Image available**

A PRINTER FOR INCORPORATION INTO CONSUMER ELECTRONIC (CE) SYSTEMS WITH
LIMITED ACCESS

IMPRIMANTE A ACCES LIMITE POUVANT ETRE INTEGREE A DES SYSTEMES D'APPAREILS
ELECTRONIQUES GRAND PUBLIC

Patent Applicant/Assignee:

SILVERBROOK RESEARCH PTY LTD,
SILVERBROOK Kia,
LAPSTUN Paul,
WALMSLEY Simon Robert,
KING Tobin,

Inventor(s):

SILVERBROOK Kia,
LAPSTUN Paul,
WALMSLEY Simon Robert,
KING Tobin,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200035675 A1 20000622 (WO 0035675)

Application: WO 99AU1023 19991118 (PCT/WO AU9901023)

Priority Application: AU 987737 19981216; AU 987738 19981216; AU 999961
19990423; AU 999962 19990423

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 39568

Main International Patent Class: B41J-002/00

Fulltext Availability:

Detailed Description

Detailed Description

... rasterize text at 800 dpi. This yields a bi-level image of 7AMB,
requiring a **lossless compression** ratio of less than 2.5A to fit
within the 3MLB/page limit. We achieve...wrong" match to have a
detrimental effect on the compression ratio.

For completeness the corresponding **decompression algorithm** is given
below. It forms the core of the EDRL Expander unit in the printer...of
one bits or zero bits which represent the corresponding part of the
image. The **decompression algorithm** is defined in
Section 6 3

The EEU 188 consists of a bitstream decoder 206...

8/3,K/24 (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00564267 **Image available**

PRINTER AND METHODS OF OPERATION
IMPRIMANTE ET PROCEDES DE FONCTIONNEMENT

Patent Applicant/Assignee:

SILVERBROOK RESEARCH PTY LTD,
SILVERBROOK Kia,
LAPSTUN Paul,
WALMSLEY Simon Robert,

Inventor(s):

SILVERBROOK Kia,
LAPSTUN Paul,
WALMSLEY Simon Robert,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200027640 A1 20000518 (WO 0027640)
Application: WO 99AU984 19991109 (PCT/WO AU9900984)
Priority Application: AU 987024 19981109; AU 987025 19981109

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 43939

Main International Patent Class: **B41J-002/07**

International Patent Class: **B41J-002/14 ...**

... **B41J-002/165 ...**

... **B41J-002/21 ...**

... **G06F-003/12 ...**

... **G06F-015/167**

Fulltext Availability:

Detailed Description

Detailed Description

... fully acceptable 800 dpi. This yields a bi-level image of 7.1NM.
requiring a **lossless compression** ratio of less than 2.5:1 to fit
within
the 3MB/page limit. We...wrong" match to have a detrimental effect on the
compression ratio.

For completeness the corresponding **decompression algorithm** is given
below. It forms the core of the EDRL Expander unit in the printer...of
one bits or zero bits which
represent the corresponding part of the image. The **decompression
algorithm**
is also defined in Section 5 3
The EEU consists of a bitstream decoder 154...

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00561855 **Image available**

METHOD AND APPARATUS FOR PRIORITY TRANSMISSION AND DISPLAY OF KEY AREAS OF IMAGE DATA

PROCEDE ET APPAREIL DE TRANSMISSION PRIORITAIRE ET AFFICHAGE DES ZONES CLES DE DONNEES D'IMAGES

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,

Inventor(s):

BEACH Mark J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200025228 A1 20000504 (WO 0025228)

Application: WO 99US3999 19990224 (PCT/WO US9903999)

Priority Application: US 98181402 19981028

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP KR

Publication Language: English

Fulltext Word Count: 10155

Main International Patent Class: **G06F-015/16**

Fulltext Availability:

Detailed Description

Detailed Description

... the normal, noncompressed image's file.

Data compression can be split into two large classes,

lossless and lossy. **Lossless compression** means that the picture, and each digital number that represents a particular color for each...

...that the original and decompressed images will be the same. A picture that has been **compressed** and decompressed using **lossless compression** will be mathematically and pictorially equivalent to the original picture. Compression and decompression of an...

...will tend to be correctly reconstructed in a viewer's mind.

One of the simplest **lossless compression** schemes is Run Length Encoding (RLE). RLE is effective when there are series of ones...topmost section and ending with the bottom most section. JPEG can be made to be **lossless**, but the best **compression** occurs with lossy compression.

2. Detailed Description

The current invention allows certain parts of an...are needed for decoding compression routines. For instance, the Lempel-Ziv-Welch (LZW) compression and **decompression algorithm** could be used in GIF files. All needed routines and software necessary to support the...

8/3,K/26 (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00554357 **Image available**

METHOD OF COMPRESSING AND DECOMPRESSING GRAPHIC IMAGES
PROCEDE DE COMPRESSION ET DE DECOMPRESSION D'IMAGES GRAPHIQUES

Patent Applicant/Assignee:

FUJITSU MICROELECTRONICS INC,

Inventor(s):

OSTROVSKY Alex,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200017730 A2 20000330 (WO 0017730)

Application: WO 99US22081 19990923 (PCT/WO US9922081)

Priority Application: US 98160504 19980924

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004).

JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 9185

Main International Patent Class: **G06F**

Fulltext Availability:

Detailed Description

Detailed Description

... compression methods reduce the size of the image by disregarding some pictorial information. In contrast, **lossless compression** methods reduce the number of bits an image would normally require without losing any data...in the block. In one embodiment of the invention, the epsilon value equals zero when **lossless compression** is desired.

In another embodiment of the invention, the epsilon value is further adjusted based...

...of a process for decompressing previously compressed image data. A "C" language implementation of the **decompression algorithm** of the present invention is disclosed in Appendix B. The decompression steps are usually performed...cpp VERSION 04/23/1998

//FMI.3D-Multimedia. Architectural group. A.Ostrovsky.

//FMI proprietary Compression/ **Decompression algorithms** . CONFIDENTIAL

#define UC unsigned char

#define ULI unsigned long int

#define FL float

int WorkBits...

8/3,K/27 (Item 17 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00541069 **Image available**

REDUCED OVERHEAD TEXT MESSAGING
MESSAGERIE TEXTUELLE A TEMPS SYSTEME REDUIT

Patent Applicant/Assignee:

MOTOROLA INC,

Inventor(s):

WANG Zhonghe,
CHANG Ying-Yueh,
SCHWENDEMAN Robert John,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200004442 A1 20000127 (WO 0004442)
Application: WO 99US13293 19990611 (PCT/WO US9913293)
Priority Application: US 98115445 19980714

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA MX ZA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 23039

Main International Patent Class: G06F-005/00

Fulltext Availability:

Detailed Description
Claims

English Abstract

A reduced overhead text messaging system (900) has a **lossless compression** engine (1104) that operates on an original message to generate a compressed message. The compressed...

Detailed Description

... unit(s) or pagers.

A second aspect of the invention involves the inclusion of a **lossless compression** engine, preferably in the paging terminal, for selectively compressing messages received from the originator or...

...and the decompression engine associated with the messaging unit or pager accommodating a plurality of **compression** procedures. These **compression** procedures comprise both **lossless** or lossy **compression** schemes, as appropriate for the information being compressed.

A sixth aspect of the invention involves...send compressed messages over the air to wireless applications. It uses a token-based data **compression** techniques for **lossless** (i.e., the decompressed message is identical to the pre-compressed message) message transmissions. It...message. This field is comprised of tokens that are interpreted sequentially according to the compression **algorithm** to **decompress** the message.

Token Text Compression Data Types

There are six data types defined in the...

Claim

1. A reduced overhead text messaging system comprising:
a **lossless compression** engine that operates on an original message to generate a compressed message including at least...that receives the original message and a destination identifier and generates, in conjunction with the **lossless compression** engine, a **compressed** message including a selective call address.

42 The reduced overhead text messaging system according to...

DIALOG(R)File 349:PCT FULLTEXT
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00428799 **Image available**

DATA DISTRIBUTION SYSTEM

SYSTEME DE DISTRIBUTION DE DONNEES

Patent Applicant/Assignee:

ALGOTEC SYSTEMS LTD,
BENJAMIN Menashe,
ELAD Michael,
BAR-SELA Ran,
REICHMAN Yosef,
MARGOLIN Jacob,

Inventor(s):

BENJAMIN Menashe,
ELAD Michael,
BAR-SELA Ran,
REICHMAN Yosef,
MARGOLIN Jacob,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9819263 A1 19980507
Application: WO 97IL349 19971029 (PCT/WO IL9700349)
Priority Application: IL 119523 19961030

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU
ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH KE LS
MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR
IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 10767

Main International Patent Class: **G06F-019/00**

Fulltext Availability:

Detailed Description

Detailed Description

... taken if lossy compression is implemented, due to the potential loss of possibly vital findings. **Lossless compression** schemes are therefore employed, which provide a relatively small reduction of image transmission time (a...actual transmission of the medical image information is accomplished through the use of a compression/**decompression algorithm** and a powerful client/server protocol. The transmission is relatively fast owing to a smart...

...letting the user refine the information query parameters during the acquisition process itself. The compression-**decompression algorithm** is basic to the explanation of the user/server acquisition protocol. Therefore, this general description will start with an explanation of the compression-**decompression algorithm** followed by a discussion of the acquisition protocol and conclude with a more detailed review of the ManMachine Interface.

2, The Compression- Decompression Algorithm

The goal of the compression-**decompression algorithm** is to achieve maximal compression ratios but at the same time supply the user with the compression-**decompression algorithm** for use with the system described. Compression starts by (optional) segmentation (block A1 in the

...Fig. 4). An example of a possible partitioning is shown in Fig. 1 0.

The **decompression algorithm** is basically the compression operations in inverse order.

First, a header is obtained, stating whether...

8/3,K/29 (Item 19 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00374271 **Image available**

APPARATUS AND METHOD FOR TWO-DIMENSIONAL DATA COMPRESSION

APPAREIL ET PROCEDE POUR COMPRESSION BIDIMENSIONNELLE DE DONNEES

Patent Applicant/Assignee:

JOHNSON-GRACE COMPANY,

Inventor(s):

HOULE Paul,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9715014 A1 19970424

Application: WO 96US16909 19961021 (PCT/WO US9616909)

Priority Application: US 95545513 19951019

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA JP MX AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 24844

Main International Patent Class: **G06F-017/00**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... a "Match"

The method of the present invention can provide for lossy as well as **lossless compression**. For **lossless compression**, two pixels are considered "matching" only if they are identical. In lossy compression, two pixels...For example, the pixel string may be as follows (assuming the digits below represent **pixel** values).

43210210321098798711111

Assurrdng **lossless compression**, the above **pixel** string might be encoded as the following list of elements (where "." indicates that a literal...)

...1 .0 [393] (714) 8 .7 [323] .1 [194]

The above is an example of **lossless compression**, but it should be understood that the present invention can be used for lossy compression

...

Claim

... encoded image data; and

(e) decoding the stream of encoded image data using a Huffirian

decompression algorithm to obtain a decoded stream of image data.

33 The method of claim 32, further...a decoder for decoding the stream of

encoded image data using a Huffman 1 5 **decompression** algorithm to obtain a decoded stream of image data.

68 The system of claim 67, further...

8/3,K/30 (Item 20 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00358935

TRY-BEFORE-YOU-BUY SOFTWARE DISTRIBUTION AND MARKETING SYSTEM

SYSTEME DE DISTRIBUTION ET DE VENTE A L'ESSAI DE LOGICIELS

Patent Applicant/Assignee:

DIGITAL RIVER INC,

Inventor(s):

RONNING Joel A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9641449 A1 19961219

Application: WO 96US9916 19960607 (PCT/WO US9609916)

Priority Application: US 95488195 19950607

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP
KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD
SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD
RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 16479

...International Patent Class: **G06F-09:00** ...

... **G06F-15:00**

Fulltext Availability:

Detailed Description

Detailed Description

... system also

18

decompresses the sectors while reading them. An example of an asymmetrical compression/ **decompression** algorithm , which produces a relatively short decompression time in comparison to compression time, is Apple Computer, Inc.'s Cinepak **compression** scheme at a **lossless** level. If the flag value has not been updated, the system determines if this is...The packages are typically compressed for transmission using, for example, Apple Computer, Inc.'s Cinepak **compression** scheme at a **lossless** level, and are transmitted using TC/IP protocol

The system then determines if the loaded...This file is typically compression for transmission using, for example, Apple Computer, Inc.'s Cinepak **compression** scheme at a **lossless** level, and is transmitted using TC/IP protocol

The system then, as described above, checks...The packages are typically compressed for transmission using, for example, Apple Computer, Inc.'s Cinepak

compression scheme at a **lossless** level, and are transmitted using TC/IP protocol. If a user requests to sample a...

?

? show files; ds; save temp; logoff hold

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File 483:Newspaper Abs Daily 1986-2005/Jun 07
(c) 2005 ProQuest Info&Learning

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S2	6074	LOSSLESS(3N) (PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N) (COMP-RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	3684	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR R? OR FISCHER, T? OR FISCHER T?)
S4	0	S3 AND S1
S5	45	S1 AND S2
S6	26	RD (unique items)

6/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

8263971 INSPEC Abstract Number: B2005-03-6120B-045

Title: Universal variable-length data compression of binary sources using fountain codes

Author(s): Caire, G.; Shamai, S.; Shokrollahi, A.; Verdu, S.
Author Affiliation: Inst. Eurecom, France
Conference Title: 2004 IEEE Information Theory Workshop (IEEE Cat. No.04EX944) p.123-8
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2004 Country of Publication: USA xii+472 pp.
ISBN: 0 7803 8720 1 Material Identity Number: XX-2005-00111
U.S. Copyright Clearance Center Code: 0-7803-8720-1/04/\$20.00
Conference Title: 2004 IEEE Information Theory Workshop
Conference Date: 24-29 Oct. 2004 Conference Location: San Antonio, TX, USA
Language: English
Subfile: B
Copyright 2005, IEE

Abstract: This paper proposes a universal variable-length **lossless compression** algorithm based on fountain codes. The compressor concatenates the Burrows-Wheeler block sorting transform (BWT) with a fountain encoder, together with the closed-loop iterative doping **algorithm**. The **decompressor** uses a belief propagation algorithm in conjunction with the iterative doping algorithm and the inverse...

...Identifiers: **lossless compression** algorithm

6/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
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8076590 INSPEC Abstract Number: B2004-10-6135C-091, C2004-10-5260B-197

Title: Learning how to compress from correlated examples: the lossless case

Author(s): Carpentieri, B.
Author Affiliation: Dipt. di Informatica ed Applicazioni "R.M. Capocelli", Universita di Salerno, Baronissi, Italy
Journal: WSEAS Transactions on Systems vol.2, no.4 p.856-60
Publisher: WSEAS,
Publication Date: Oct. 2003 Country of Publication: Greece
ISSN: 1109-2777
SICI: 1109-2777(200310)2:4L.856:LCFC;1-Q
Material Identity Number: I386-2004-004
Language: English
Subfile: B C
Copyright 2004, IEE

Abstract: Today the efficiency of the state of the art **lossless** data **compression** algorithms is very close to the theoretical limit: the entropy of the transmitting source. On...

... our knowledge of messages we have already compressed from the same source and to design **algorithms** that compress or **decompress** given this

knowledge; in this way the theoretical limit, the conditional entropy, allows for better...

Identifiers: **lossless compression** ;

6/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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7831717 INSPEC Abstract Number: B2004-02-6135C-076, C2004-02-5260B-275

Title: Lossless data compression methods based on neural network

Author(s): Yang Guowei; Li Zhengxi; Tu Xuyan

Author Affiliation: Comput. Center, Teacher's Coll. of Qingdao Univ., China

Conference Title: ICCT 2003. 2003 International Conference on Communication Technology. Proceedings (IEEE Cat. No.03EX659) Part vol.2 p.1899-902 vol.2

Publisher: Beijing Univ. Posts & Telecommun. Press, Beijing, China

Publication Date: 2003 Country of Publication: China 2 vol.1945 pp.

ISBN: 7 5635 0686 1 Material Identity Number: XX-2003-02143

Conference Title: ICCT 2003 - International Conference on Communication Technology

Conference Sponsor: China Inst. Commun. (CIC); Chinese Inst. Electron. (CIE)

Conference Date: 9-11 April 2003 Conference Location: Beijing, China

Language: English

Subfile: B C

Copyright 2004, IEE

Title: Lossless data compression methods based on neural network

Abstract: No **lossless data compression** method based on neural network has been found before. A **lossless compression** method based on BP network for the long character-string of 0 and 1 is...

... linear approximation capability of concrete three-layer BP network in this paper. The compression and **decompression algorithms** of the **lossless compression** method are provided. Experiments show that the **compression** ratio of the **lossless compression** method is usually around 16/11 and the method can effectively compress the data which...

Identifiers: **lossless data compression** method...

... **decompression algorithm** ;

6/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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7100315 INSPEC Abstract Number: B2002-01-6135C-030, C2002-01-5260B-083

Title: Architecture for hardware compression/decompression of large images

Author(s): Akil, M.; Perroton, L.; Gaillhard, S.; Denoulet, J.; Bartier, F.

Author Affiliation: Lab. A2SI, ESIEE, Noisy-Le-Grand, France

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.4303 p.51-8

Publisher: SPIE-Int. Soc. Opt. Eng.,

Publication Date: 2001 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X
SICI: 0277-786X(2001)4303L:51:AHCD;1-T
Material Identity Number: C574-2001-254
U.S. Copyright Clearance Center Code: 0277-786X/01/\$15.00
Conference Title: Real-Time Imaging V
Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol
Conference Date: 24-25 Jan. 2001 Conference Location: San Jose, CA,
USA
Language: English
Subfile: B C
Copyright 2001, IEE
Abstract: In this article, we present a popular **lossless compression /
decompression algorithm**, GZIP, and the study to implement it on a FPGA
based architecture. The algorithm is...
...Identifiers: **lossless compression** ;

6/3,K/5 (Item 5 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.
7023702 INSPEC Abstract Number: B2001-10-1265A-039, C2001-10-5210B-025
Title: **A geometric-primitives-based compression scheme for testing
systems-on-a-chip**
Author(s): El-Maleh, A.; al Zahir, S.; Khan, E.
Author Affiliation: King Fahd Univ. of Pet. & Miner., Dhahran, Saudi
Arabia
Conference Title: Proceedings 19th IEEE VLSI Test Symposium. VTS 2001
p.54-9
Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
Publication Date: 2001 Country of Publication: USA xxxiii+415 pp.
ISBN: 0 7695 1122 8 Material Identity Number: XX-2001-00938
U.S. Copyright Clearance Center Code: 1093 0167/2001/\$10.00
Conference Title: Proceedings 19th IEEE VLSI Test Symposium. VTS 2001
Conference Sponsor: IEEE Comput. Soc. Test Technol. Tech. Council
Conference Date: 29 April-3 May 2001 Conference Location: Marina Del
Rey, CA, USA
Language: English
Subfile: B C
Copyright 2001, IEE

...Abstract: for test data reduction imperative. In this paper we
introduce a novel and very efficient **lossless compression** technique for
testing systems-on-a-chip based on geometric shapes. The technique exploits
reordering...

... this paper, it is assumed that an embedded core will be used to execute
the **decompression algorithm** and **decompress** the test data.

...Identifiers: **lossless compression** technique...

... **decompression algorithm**

6/3,K/6 (Item 6 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.
6983820 INSPEC Abstract Number: B2001-08-6135C-095, C2001-08-5260B-285

Title: Block-based adaptive lossless image coder
 Author(s): Sudharsanan, S.; Sriram, P.
 Author Affiliation: Sun Microsyst. Inc., Palo Alto, CA, USA
 Conference Title: Proceedings 2000 International Conference on Image Processing (Cat. No.00CH37101) Part vol.1 p.120-3 vol.1
 Publisher: IEEE, Piscataway, NJ, USA
 Publication Date: 2000 Country of Publication: USA 3
 vol.(lxviii+1027+957+1000) pp.
 ISBN: 0 7803 6297 7 Material Identity Number: XX-1999-03584
 U.S. Copyright Clearance Center Code: 0 7803 6297 7/2000/\$10.00
 Conference Title: Proceedings of 7th IEEE International Conference on Image Processing
 Conference Sponsor: IEEE Signal Process. Soc
 Conference Date: 10-13 Sept. 2000 Conference Location: Vancouver, BC, Canada
 Language: English
 Subfile: B C
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...Abstract: growth in the use of digital documents and photographic and medical images, the interest in **lossless image compression** has increased. Coders, such as CALIC and JPEG-LS, using context modeling have raised the...

... required for these coders is significant and naturally serial. Parallelizable and compute efficient compression and **decompression algorithms** have attractive features such as cost effective hardware and scalable software implementations. Hence, we propose...

...Identifiers: **lossless image compression** ; ...

... **decompression algorithm** ;

6/3,K/7 (Item 7 from file: 2)
 DIALOG(R)File 2:INSPEC
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6918242 INSPEC Abstract Number: B2001-06-6135C-058, C2001-06-5260B-241
Title: Lossless image compression and encryption using SCAN
 Author(s): Maniccam, S.S.; Bourbakis, N.G.
 Author Affiliation: Dept. of Electr. Eng., Binghamton Univ., Binghamton, NY, USA
 Journal: Pattern Recognition vol.34, no.6 p.1229-45
 Publisher: Elsevier,
 Publication Date: June 2001 Country of Publication: UK
 CODEN: PTNRA8 ISSN: 0031-3203
 SICI: 0031-3203(200106)34:6L.1229:LICE;1-E
 Material Identity Number: P133-2001-005
 U.S. Copyright Clearance Center Code: 0031-3203/2001/\$20.00
 Language: English
 Subfile: B C
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Title: Lossless image compression and encryption using SCAN
 Abstract: This paper presents a new methodology which performs both **lossless compression** and encryption of binary and gray-scale images. The compression and encryption schemes are based...
 ... paths or space filling curves. This paper presents a brief overview of SCAN, compression and **decompression algorithms**, encryption and

decrypting algorithms, and test results of the methodology.

Identifiers: **lossless image compression** ;

6/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6526952 INSPEC Abstract Number: A2000-08-4230-020, B2000-04-6135C-268

Title: High-quality still color image compression

Author(s): Truchetet, F.; Joanne, B.; Perot, F.; Laligant, O.

Author Affiliation: Bourgogne Univ., Creusot, France

Journal: Optical Engineering vol.39, no.2 p.409-14

Publisher: SPIE,

Publication Date: Feb. 2000 Country of Publication: USA

CODEN: OPEGAR ISSN: 0091-3286

SICI: 0091-3286(200002)39:2L:409:HQSC;1-T

Material Identity Number: 0036-2000-003

U.S. Copyright Clearance Center Code: 0091-3286/2000/\$15.00

Language: English

Subfile: A B

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...Abstract: the transformed image tree can be pruned and the images altered to obtain a compression/ **decompression algorithm** respectful of human psychovisual image perception. The basic assumptions for human vision on which the...

... color transformation used before applying wavelet packet transform. We also point out that a quasi- **lossless compression** /decompression scheme can be easily obtained with a compression ratio up to 1:10 (quantization...

...Identifiers: compression/ **decompression algorithm** ; ...

...quasi- **lossless compression** /decompression scheme

6/3,K/9 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

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6441812 INSPEC Abstract Number: C2000-01-6130B-085

Title: Tetrahedral mesh compression with the cut-border machine

Author(s): Gumhold, S.; Guthe, S.; Strasser, W.

Author Affiliation: Tübingen Univ., Germany

Conference Title: Proceedings Visualization '99 (Cat. No.99CB37067) p. 51-509

Editor(s): Ebert, D.; Gross, M.; Hamann, B.

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1999 Country of Publication: USA 565 pp.

ISBN: 0 7803 5897 X Material Identity Number: XX-1999-03285

U.S. Copyright Clearance Center Code: 0 7803 5897 X/99/\$10.00

Conference Title: Proceedings Visualization '99

Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Comput. Graphics ; ACM SIGGRAPH

Conference Date: 24-29 Oct. 1999 Conference Location: San Francisco, CA, USA

Language: English

Subfile: C

Copyright 1999, IEE

...Abstract: mega-bytes of storage. For archivation and transmission compression algorithms are essential. In scientific applications **lossless compression** schemes are of primary interest. This paper introduces a new **lossless compression** scheme for the connectivity of tetrahedral meshes. Our technique can handle all tetrahedral meshes in three dimensional euclidean space even with non manifold border. We present compression and **decompression algorithms** which consume for reasonable meshes linear time in the number of tetrahedra. The connectivity is...

...Identifiers: **lossless compression** schemes

6/3,K/10 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

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6431402 INSPEC Abstract Number: B2000-01-6135C-106, C2000-01-5260B-274

Title: SCAN based lossless image compression and encryption

Author(s): Maniccam, S.S.; Bourbakis, N.G.

Author Affiliation: Dept. of Electr. Eng., Binghamton Univ., NY, USA

Conference Title: Proceedings 1999 International Conference on Information Intelligence and Systems (Cat. No.PR00446) p.490-9

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1999 Country of Publication: USA xvii+691 pp.

ISBN: 0 7695 0446 9 Material Identity Number: XX-1999-03204

U.S. Copyright Clearance Center Code: 0 7695 0446 9/99/\$10.00

Conference Title: Proceedings 1999 International Conference on Information Intelligence and Systems

Conference Sponsor: IEEE Comput. Soc.; IEEE Comput. Soc. Virtual Intelligence Task Force; IEEE Comput. Soc. Conference on Tools with AI; AAAI Soc.; IAPR Soc.; BU-CIS Center; Tech. Univ. Crete; Univ. Crete

Conference Date: 31 Oct.-3 Nov. 1999 Conference Location: Bethesda, MD, USA

Language: English

Subfile: B C

Copyright 1999, IEE

Title: SCAN based lossless image compression and encryption

Abstract: This paper presents a new methodology which performs both **lossless compression** and encryption of binary and gray scale images. The compression and encryption schemes are based...

... scanning paths or space filling curves. This paper presents compression specific SCAN language, compression and **decompression algorithms**, encryption and decryption algorithms, and test results of the methodology.

Identifiers: SCAN based **lossless image compression** ; ...

... **decompression algorithms** ;

6/3,K/11 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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6006195 INSPEC Abstract Number: B9810-6140C-153, C9810-5260B-057

Title: Wavelet packets and multiresolution criterion for color image compression

Author(s): Truchetet, F.; Perot, F.; Laligant, O.

Author Affiliation: LE2I, Bourgogne Univ., Le Creusot, France

Journal: Proceedings of the SPIE - The International Society for Optical Engineering
Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.3308 p.75-84

Publisher: SPIE-Int. Soc. Opt. Eng,
Publication Date: 1998 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1998)3308L:75:WPMC;1-6

Material Identity Number: C574-98075

U.S. Copyright Clearance Center Code: 0277-786X/98/\$10.00

Conference Title: Very High Resolution and Quality Imaging III

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 30 Jan. 1998 Conference Location: San Jose, CA, USA

Language: English

Subfile: B C

Copyright 1998, IEE

...Abstract: image tree can be pruned and the imagets altered in order to obtain a compression/ **decompression** **algorithm** respectful of human psychovisual image perception. In the first part we present the basic assumptions...

... before applying wavelet packet transform and in the third part we show that a quasi **lossless** **compression** /decompression scheme can be easily obtained with compression ratio up to 1:10 (quantization step...

6/3,K/12 (Item 12 from file: 2)

DIALOG(R)File 2:INSPEC

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4962326 INSPEC Abstract Number: A9512-8760K-010, B9507-7510B-037,
C9507-7330-082

Title: Lossy compression in nuclear medicine images

Author(s): Rebelo, M.S.; Furuie, S.S.; Munhoz, A.C.L.; Moura, L.; Melo, C.P.

Author Affiliation: InCor-HCFMUSP, Sao Paulo, Brazil

p.824-8

Editor(s): Safran, C.

Publisher: McGraw-Hill, New York, NY, USA

Publication Date: 1994 Country of Publication: USA xxviii+984 pp.

ISBN: 0 07 001502 3

Conference Title: Proceedings of Seventeenth Annual Symposium on Computer Applications in Medical Care

Conference Date: 30 Oct.-3 Nov. 1993 Conference Location: Washington, DC, USA

Language: English

Subfile: A B C

Copyright 1995, IEE

...Abstract: represent images. In medical applications, it is not desirable to lose any information and thus **lossless** **compression** methods are often used. However, medical imaging systems have intrinsic noise associated with them. The...

... in the images. We have compressed images of nuclear medicine using the discrete cosine transform **algorithm** . The **decompressed** images were considered reliable for visual inspection. Furthermore, a parameter was computed from these images...

6/3,K/13 (Item 13 from file: 2)

DIALOG(R)File 2:INSPEC

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4536574 INSPEC Abstract Number: B9401-1265F-015, C9401-5135-005

Title: On the design and implementation of a lossless data compression and decompression chip

Author(s): Royals, D.M.; Markas, T.; Kanopoulos, N.; Reif, J.H.; Storer, J.A.

Author Affiliation: Center for Syst. Eng., Research Triangle Inst., Research Triangle Park, NC, USA

Journal: IEEE Journal of Solid-State Circuits vol.28, no.9 p.948-53

Publication Date: Sept. 1993 Country of Publication: USA

CODEN: IJSCBC ISSN: 0018-9200

U.S. Copyright Clearance Center Code: 0018-9200/93/\$03.00

Language: English

Subfile: B C

Title: On the design and implementation of a lossless data compression and decompression chip

Abstract: A **lossless data compression and decompression (LDCD) algorithm** based on the notion of textural substitution has been implemented in silicon using a linear...

Identifiers: **compression/ decompression algorithm ;**

6/3,K/14 (Item 14 from file: 2)

DIALOG(R)File 2:INSPEC

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4481855 INSPEC Abstract Number: B9310-1265F-036, C9310-5135-019

Title: High-speed VLSI designs for Lempel-Ziv-based data compression

Author(s): Ranganathan, N.; Henriques, S.

Author Affiliation: Dept. of Comput. Sci. & Eng., Univ. of South Florida, Tampa, FL, USA

Journal: IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing vol.40, no.2 p.96-106

Publication Date: Feb. 1993 Country of Publication: USA

CODEN: ICSPE5 ISSN: 1057-7130

U.S. Copyright Clearance Center Code: 1057-7130/93/\$03.00

Language: English

Subfile: B C

...Abstract: compression technique is described. The Lempel-Ziv-based compression method is a powerful technique for **lossless data compression** that gives high compression efficiency for text as well as image data. The proposed hardware...

...gives a compression rate of 13.3 MB/s operating at 40 MHz. Two hardware **algorithms** for the **decompression** process are also described. The data compression hardware can be integrated into real-time systems...

...Identifiers: **lossless data compression ;**

6/3,K/15 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1952505 NTIS Accession Number: AD-A304 792/5

Lossless Data Compression of Packet Data Streams

Choi, J. ; Grunes, M. R.

Naval Research Lab., Washington, DC. Systems Engineering Staff.

Corp. Source Codes: 000927007; 430780

Report No.: NRL/MR/8140.2-96-7818

14 Feb 96 52p

Languages: English

Journal Announcement: GRAI9616

Prepared in collaboration with Allied Technical Services, Camp Springs, MD.

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NTIS Prices: PC A05/MF A01

Lossless Data Compression of Packet Data Streams

... packet type, and are broken up into separate compression streams on bit field boundaries. 18 **lossless compression** algorithms are examined for effectiveness. These algorithms are able to compress most of the data ...

Descriptors: *Data compression; **Algorithms** ; Packets; Losses; **Decompression**

Identifiers: *Packet communications; **Lossless compression** ; Radix coding; Rice coding; NTISDODXA

6/3,K/16 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1601495 NTIS Accession Number: N91-27775/6

Very High Speed Lossless Compression /Decompression Chip Set

Venbrux, J. ; Liu, N. ; Liu, K. ; Vincent, P. ; Merrell, R.

Idaho Univ., Moscow. NASA VLSI Hardware Acceleration Center for Space Research.

Corp. Source Codes: 009858059; NB113063

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Report No.: NAS 1.26:188655; JPL-PUBL-91-13; NASA-CR-188655

15 Jul 91 17p

Languages: English

Journal Announcement: GRAI9122; STAR2919

Sponsored In part by NASA. Goddard Space Flight Center.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

Very High Speed Lossless Compression /Decompression Chip Set

A chip is described that will perform **lossless compression** and **decompression** using the Rice **Algorithm**. The chip set is designed to compress and decompress source data in real time for...

6/3,K/17 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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04711910 E.I. No: EIP97063674729

Title: Fast block-sorting algorithm for lossless data compression

Author: Schindler, Michael

Corporate Source: Vienna Univ of Technology, Vienna, Aust

Conference Title: Proceedings of the 1997 Data Compression Conference, DCC'97

Conference Location: Snowbird, UT, USA Conference Date: 19970325-19970327

E.I. Conference No.: 46437

Source: Data Compression Conference Proceedings 1997. IEEE, Piscataway, NJ, USA. p 469

Publication Year: 1997

CODEN: DDCCF9 ISSN: 1068-0314

Language: English

Title: Fast block-sorting algorithm for lossless data compression

Identifiers: Block sorting algorithm ; Lossless data compression ; Decompression

6/3,K/18 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2005 Inst for Sci Info. All rts. reserv.

09236261 Genuine Article#: 382FB No. References: 20

Title: A hardware architecture for the LZW compression and decompression algorithms based on parallel dictionaries

Author(s): Lin MB (REPRINT)

Corporate Source: NATL TAIWAN UNIV SCI & TECHNOL, DEPT ELECT ENGN, 43 KEELUNG RD, SECT 4/TAIPEI//TAIWAN/ (REPRINT)

Journal: JOURNAL OF VLSI SIGNAL PROCESSING SYSTEMS FOR SIGNAL IMAGE AND VIDEO TECHNOLOGY, 2000, V26, N3 (NOV), P369-381

ISSN: 0922-5773 Publication date: 20001100

Publisher: KLUWER ACADEMIC PUBL, SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: A hardware architecture for the LZW compression and decompression algorithms based on parallel dictionaries

...Abstract: dictionaries of small address space and increasing word widths is used for both compression and decompression algorithms. The results show that the new architecture not only can be easily implemented in VLSI...

6/3,K/19 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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02432369 Genuine Article#: LA800 No. References: 9

Title: EFFICIENT STORAGE, COMPUTATION, AND EXPOSURE OF COMPUTER-GENERATED HOLOGRAMS BY ELECTRON-BEAM LITHOGRAPHY

Author(s): NEWMAN DM; HAWLEY RW; GOECKEL DL; CRAWFORD RD; ABRAHAM S; GALLAGHER NC

Corporate Source: PURDUE UNIV, SCH ELECT ENGN/W LAFAYETTE//IN/47907

Journal: APPLIED OPTICS, 1993, V32, N14 (MAY 10), P2555-2565

ISSN: 0003-6935

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: was implemented on a parallel computer, which improved performance by 2 orders of magnitude. The **decompression algorithm** was integrated into the Cambridge electron-beam machine's front-end processor.

Although this provides...

Research Fronts: 91-5711 001 (HUFFMAN CODES; **LOSSLESS IMAGE COMPRESSION** ; ADAPTIVE SOURCE-CODING; CHESS GAMES; VLSI ALGORITHMS; PERFORMANCE IMPROVEMENT)

6/3,K/20 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01812709 ORDER NO: AADAA-I3002469

Mesh compression and its hardware/software applications

Author: Mitra, Tulika

Degree: Ph.D.

Year: 2000

Corporate Source/Institution: State University of New York at Stony Brook (0771)

Source: VOLUME 62/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 341. 163 PAGES

ISBN: 0-493-10891-2

...solution to this problem is to use a compressed mesh representation. This dissertations presents a **lossless compression** -domain mesh processing paradigm for efficient encoding and manipulation of large triangle and tetrahedral meshes...

...disk access time for the resultant mesh. At the same time, the simplicity of the **algorithm** makes BFT **decompression** amenable to hardware implementation. The feasibility of BFT decompression in hardware is demonstrated with a...

6/3,K/21 (Item 2 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

(c) 2005 ProQuest Info&Learning. All rts. reserv.

01642392 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.

LOSSLESS DATA COMPRESSION IN VLSI

Author: BENSCHOP, LEONARD CORNELIUS

Degree: DR.

Year: 1997

Corporate Source/Institution: TECHNISCHE UNIVERSITEIT EINDHOVEN (THE NETHERLANDS) (0426)

Source: VOLUME 59/03-C OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 749. 242 PAGES

ISBN: 90-386-0400-9

Location of Reference Copy: LIBRARY OF ELECTRICAL ENGINEERING, EINDHOVEN
UNIVERSITY OF TECHNOLOGY, DEN DOLECH 2, EINDHOVEN,
NETHERLANDS

LOSSLESS DATA COMPRESSION IN VLSI

This thesis describes the design of a VLSI circuit for **lossless** data **compression** and **decompression** using the LZH **algorithm** (Lempel-Ziv and Huffman). The compressed data is compatible with standard software. The required speed...

6/3,K/22 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

05824501 JICST ACCESSION NUMBER: 04A0468276 FILE SEGMENT: JICST-E

Sequential Algorithm for Compressing Ordered Tree without Loss

KATO KOICHIRO (1); UCHIDA TOMOYUKI (1); NAKAMURA YASUAKI (1)

(1) Hiroshima City Univ., Hiroshima, Jpn

Joho Shori Gakkai Kenkyu Hokoku, 2004, VOL.2004,NO.52(AL-95), PAGE.9-16,

FIG.9, REF.7

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.5.011 681.3.06

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: up such a heavy process. The purpose of this paper is to present an efficient **lossless compression** algorithm for sequential tree structured data. Tree structured data are represented by rooted trees each...

...children. Such a tree is called an ordered tree. Firstly, we give a concept of **lossless compression** for an ordered tree. Secondly, based on a LZSS method which is one of **lossless compression** methods over strings, we present sequential algorithm for sequentially compressing a large ordered tree without loss. Moreover, we also present an efficient **decompression algorithm** for compressed ordered tree. Finally, in order to evaluate the performance of our algorithms, we...

6/3,K/23 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

02290672 JICST ACCESSION NUMBER: 94A0974401 FILE SEGMENT: JICST-E

File compression technology. (1).

OKUMURA HARUHIKO (1)

(1) Matsuzakadai Seijikeizai

BIT(Tokyo), 1994, VOL.26,NO.12, PAGE.4-13, FIG.1, TBL.1, REF.23

JOURNAL NUMBER: G0873AAS ISSN NO: 0385-6984

UNIVERSAL DECIMAL CLASSIFICATION: 621.391.037.3

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: compression, LZSS method, variable length code, Huffman method, arithmetic compression, etc.) with limiting to the **lossless** (reversible) **compression** in which data are perfectly restored to

original by **decompression** . This paper describes **algorithms** of gzip, LHA combines LZSS method with Huffman etc.

6/3,K/24 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

1109921 H.W. WILSON RECORD NUMBER: BAST93042048

Putting data on a diet

Weiss, Jeffrey; Schremp, Doug
IEEE Spectrum v. 30 (Aug. '93) p. 36-9
DOCUMENT TYPE: Feature Article ISSN: 0018-9235

...ABSTRACT: remove them and thereby reduce the data set. Then, after transmission or storage, a complementary **decompression algorithm** restores the compressed data to its original form. In an explanation of how these algorithms work, the following are discussed: lossy and **lossless compression** ; entropy, which is a measure of the information's content; run-length encoding; Huffman trees...

6/3,K/25 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

14973117 PASCAL No.: 01-0126331

Compressed and fully compressed pattern matching in one and two dimensions

Lossless **Data** Compression
RYTTER Wojciech
STORER James A, ed
Instytut Informatyki, Uniwersytet Warszawski, 02-097 Warszawa, Poland;
Department of Computer Science, Liverpool University, Liverpool L69 7ZF,
United Kingdom
Computer Science Department, Brandeis University, Waltham, MA 02454,
United States
Institute of Electrical and Electronics Engineers, New York, NY, United States
IEEE Data Compression Conference (Los Alamitos, CA USA)
Journal: Proceedings of the IEEE, 2000, 88 (11) 1769-1778
Language: English

Copyright (c) 2001 INIST-CNRS. All rights reserved.

Lossless **Data** Compression
French Descriptors: Traitement texte; Compression donnee; Concordance forme
; Modele 1 dimension; Modele 2 dimensions; Complexite; **Decompression** ;
Theorie information; **Algorithme** ; Etude theorique; 0705R; 0705K

6/3,K/26 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

14849913 PASCAL No.: 00-0534613

Adaptive context-based sequential prediction for lossless audio compression : Special section on DSP in audio-visual communications

GIURCANEANU Ciprian Doru; TABUS Ioan; ASTOLA Jaakko
Signal Processing Laboratory, Tampere University of Technology, P.O. Box
553, Tampere 33101, Finland

Journal: Signal processing, 2000, 80 (11) 2283-2294

Language: English Summary Language: German; French

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**Adaptive context-based sequential prediction for lossless audio
compression : Special section on DSP in audio-visual communications**

... le contexte en mode sequentiel pour la compression audio sans perte.
Nous montrons que les **algorithmes de compression** sans perte avec
prediction sequentielle basee sur le contexte peuvent fournir de meilleurs
resultats de...

?

? show files; ds; save temp; logoff hold

File 9:Business & Industry(R) Jul/1994-2005/Jun 15
(c) 2005 The Gale Group

File 15:ABI/Inform(R) 1971-2005/Jun 15
(c) 2005 ProQuest Info&Learning

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(c) 2005 The Gale group

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(c) 2005 The Gale Group

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File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.

File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media

File 141:Readers Guide 1983-2005/Dec
(c) 2005 The HW Wilson Co

File 148:Gale Group Trade & Industry DB 1976-2005/Jun 15
(c)2005 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2005/Jun 15
(c) 2005 The Gale Group

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(c) 2005 The Dialog Corp.

File 484:Periodical Abs Plustext 1986-2005/Jun W2
(c) 2005 ProQuest

File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co

File 570:Gale Group MARS(R) 1984-2005/Jun 15
(c) 2005 The Gale Group

File 608:KR/T Bus.News. 1992-2005/Jun 15
(c)2005 Knight Ridder/Tribune Bus News

File 620:EIU:Viewswire 2005/Jun 14
(c) 2005 Economist Intelligence Unit

File 613:PR Newswire 1999-2005/Jun 15
(c) 2005 PR Newswire Association Inc

File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jun 15
(c) 2005 The Gale Group

File 623:Business Week 1985-2005/Jun 09
(c) 2005 The McGraw-Hill Companies Inc

File 624:McGraw-Hill Publications 1985-2005/Jun 15
(c) 2005 McGraw-Hill Co. Inc

File 634:San Jose Mercury Jun 1985-2005/Jun 14
(c) 2005 San Jose Mercury News

File 635:Business Dateline(R) 1985-2005/Jun 15
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File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 15
(c) 2005 The Gale Group

File 647:CMP Computer Fulltext 1988-2005/May W5
(c) 2005 CMP Media, LLC

File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 14
(c) 2005 The Dialog Corp.

File 674:Computer News Fulltext 1989-2005/Jun W2

(c) 2005 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 587:Jane`s Defense&Aerospace 2005/Jun W2
 (c) 2005 Jane`s Information Group

Set	Items	Description
S1	1671	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM ?) OR (DE-COMPRESS? OR DE()COMPRESS?)(3N) ALGORITHM?
S2	3360	LOSSLESS(3N)(PIXEL OR PIXEL(3N)PIXEL) OR LOSSLESS(3N)(COMP-RESS? OR DE()COMPRESS?) OR LOSSLESS(3N)PIXEL(3N)DECOMPRESS?
S3	937	AU=(CLOUTHIER, S? OR CLOUTHIER S? OR BENEAR, R? OR BENEAR R? OR FISCHER, T? OR FISCHER T?)
S4	0	S1 AND S3
S5	15	S1(S)S2
S6	9	RD (unique items)
S7	34	FX(3N)(DECOMPRESS? OR DE()COMPRESS? OR ALGORITHM?)
S8	17	RD (unique items)
S9	17	S8 NOT S6

6/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

02525019 140705841

Unified personal mobile communication services for a wireless campus

Hui, Siu C; Fong, A C M; Lau, C T
Campus - Wide Information Systems v19n1 PP: 27-35 2002
ISSN: 1065-0741 JRNL CODE: CWFS
WORD COUNT: 4129

...TEXT: the search result to give the user an idea of what the Web page contains.

Lossless compression : this enables the original message (body and attachment) to be recovered following **decompression** . The ZIP compression **algorithm** (Gailly, 1999) is used as it is one of the most commonly used **lossless compression** algorithms and it is the only native compression algorithm supported in the Java programming language...

6/3,K/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

08021686 Supplier Number: 66683216 (USE FORMAT 7 FOR FULLTEXT)

Small Packages. (Technology Information)

Rubenking, Neil J.
PC Magazine, p106
Dec 5, 2000
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; General Trade
Word Count: 1901

... technique for reducing the number of bytes required to store or transmit data. If the **algorithm** is **lossless** , **decompressing** a **compressed** file will yield a result that is identical to the original. This type of compression...

6/3,K/3 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

02918174 Supplier Number: 43941798 (USE FORMAT 7 FOR FULLTEXT)

Digital Video Compression: Getting Images Across a Net

Network Computing, p146
July, 1993
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 4201

... too high for PC applications.

Compression algorithms fall into two categories: lossless and lossy. In **lossless compression** all the information of the uncompressed message can be recovered faithfully by **decompression** . **Lossless compression algorithms** are symmetrical. That is, the sender and receiver require the same level of computational complexity...

...for example, numbers or text - clearly require lossless methods. Hardware and software products that implement **lossless** algorithms have **compression** ratios of about 2:1. Typical applications for **lossless compression** include doubling the storage capacity of a disk or doubling the speed of a communication line. **Lossless compression** also can be applied to voice or image files. There, because data redundancy is high...

6/3,K/4 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2005 The Gale group. All rts. reserv.

04516779 SUPPLIER NUMBER: 18371621 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Creating graphic images for the Web. (PC Tech/Internet Tools) (includes a related article on new graphics formats for Netscape Navigator 2.0) (Technology Tutorial) (Tutorial)

Simone, Luisa

PC Magazine, v15, n12, p221(4)

June 25, 1996

DOCUMENT TYPE: Tutorial ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3008 LINE COUNT: 00235

... thus avoids obvious banding in graduated fills.

Use Compression Methods

Graphics file formats incorporate compression/ **decompression algorithms** as part of the file open/save or import/export operation. The .GIF and JPEG formats both use sophisticated compression algorithms, but they differ in that .GIF incorporates a **lossless compression** method and JPEG a lossy method.

.GIF files are built around the lossless Lempel-Ziv...

6/3,K/5 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

07968247 SUPPLIER NUMBER: 17190128 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Peerless ASIC Sets New Price/Performance Standard for Networked Printers and Multi-function Devices; QuickPrint Enables Printers to Output 24 Pages-Per-Minute At 1200 x 1200 dpi At 40 Percent The Cost of Competing Products.

Business Wire, p7030007

July 3, 1995

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 729 LINE COUNT: 00074

... includes Peerless' Graphics Execution Unit (GEU) which incorporates patent-pending lossy and lossless compression and **decompression algorithms** to deliver ratios ranging from 4:1 up to and beyond 25:1.

High Performance...

6/3,K/6 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

01973678 SUPPLIER NUMBER: 18481432
Multimedia: the I-way drive-in. (use of Internet for live audio and video)
(includes related article on Internet multicast backbone)
(Internet/Web/Online Service Information)
Steinke, Steve
LAN Magazine, v11, n8, p45(4)
August, 1996
ISSN: 1069-5621 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3726 LINE COUNT: 00302

... make Internet-based multimedia possible for a number of reasons.
First, multimedia streams can be **compressed** using lossy algorithms.
Lossless data **compression** algorithms such as PKZIP are perfectly
reversible; every bit present in the original data will be the same in a
copy that has been compressed and **decompressed**. Lossy compression
algorithms lose data as a file or stream is compressed and decompressed.
This price is ordinarily paid to achieve greater efficiency and improved
speed compared to **lossless compression**. With well-designed compression
methods, the lost data is expendable, or even unnoticeable.
Second, multimedia...

6/3,K/7 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01880963 SUPPLIER NUMBER: 17883134 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Image isn't everything.(image management on the LAN) (Technology
Information)
Held, Gilbert
LAN Magazine, v11, n1, p85(5)
Jan, 1996
ISSN: 1069-5621 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2906 LINE COUNT: 00242

... format.
LZW is one of several string-based compression methods that is fully
reversible. The **decompression algorithm**, when applied to a previously
compressed file, results in the recreation of the original file...

...a bit-for-bit basis without any loss of data. This technique is also
called **lossless compression**.

The Joint Photographic Experts Group (JPEG) standardized a method of
image storage and viewing based...

6/3,K/8 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01835878 SUPPLIER NUMBER: 17414017 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The primer. (migrating to a new network operating system) (includes related
article on battle between NetWare and NT for upgrade market share)(The
Great Debate: NetWare 4.1 vs. NT 3.5)(Tutorial)
Chernicoff, David; Jensen, Bert; Salvator, Dave
Windows Sources, v3, n10, p78(5)
Oct, 1995
DOCUMENT TYPE: Tutorial ISSN: 1065-9641 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4435 LINE COUNT: 00353

... your MIDI file.

As with video, you can use any of several types of compression/
decompression algorithms (codecs) to compress your digital recordings.
Uncompressed digital recordings use a process called pulse code...

...the difference from sample to sample, which uses only 4 bits of data,
delivering nearly **lossless 4-to-1 compression**. Even slight losses can
be noticeable with music, but with speech the effect is minimal...

6/3,K/9 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00546284 CMP ACCESSION NUMBER: NWC19930705S4642
Digital Video Compression: Getting Images Across a Net
Daniel Minoli
NETWORK COMPUTING, 1993, n 407, 146
PUBLICATION DATE: 930705
JOURNAL CODE: NWC LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: The Workshop
WORD COUNT: 4138

... too high for PC applications.

Compression algorithms fall into two categories: lossless and lossy.
In **lossless compression** all the information of the uncompressed
message can be recovered faithfully by **decompression**. **Lossless**
compression algorithms are symmetrical. That is, the sender and
receiver require the same level of computational complexity...

...for example, numbers or text-clearly require lossless methods. Hardware
and software products that implement **lossless** algorithms have
compression ratios of about 2:1. Typical applications for **lossless**
compression include doubling the storage capacity of a disk or doubling
the speed of a communication line. **Lossless compression** also can be
applied to voice or image files. There, because data redundancy is high...
?

9/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.

03630860 Supplier Number: 131238048 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Trading: Algorithms Headed for New Frontiers: Advanced matrices for equity transactions are being applied to other financial instruments, such as options, futures and foreign exchange. And you thought the game was competitive before.

Bank Technology News, v 18, n 4, p 22
April 2005
DOCUMENT TYPE: Journal ISSN: 1060-3506 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 774

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...as you can from algorithms in the equity market."

Goldman Sachs in February added futures **algorithms** along with **FX** and options spread trading to version 5.0 of its REDIPlus direct access trading platform...

9/3,K/2 (Item 2 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.

03444562 Supplier Number: 122262899 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The search for simplicity.
(Financial technology)
Euromoney, v 35, n 424, p 36
August 2004
DOCUMENT TYPE: Journal ISSN: 0014-2433 (United Kingdom)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 8758

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...Capital Systems 38.2
Orc Software 29.0
ANALYTIC CAPABILITIES
Grade
SuperDerivatives: SuperDerivatives 91.5
FX, Derivatives
Algorithmica Research: Quantlab 83.0
Sophis: Sophis Risque 81.3
Sophis: Sophis Value 79.4
Savvysoft...

9/3,K/3 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

11982486 Supplier Number: 131238048 (USE FORMAT 7 FOR FULLTEXT)
Trading: Algorithms Headed for New Frontiers: Advanced matrices for equity transactions are being applied to other financial instruments, such as options, futures and foreign exchange. And you thought the game was competitive before.

Kite, Shane
Bank Technology News, v18, n4, p22
April, 2005
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 854

... as you can from algorithms in the equity market."
Goldman Sachs in February added futures **algorithms** along with **FX** and options spread trading to version 5.0 of its REDIPlus direct access trading platform...

9/3,K/4 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

11898305 Supplier Number: 130205146 (USE FORMAT 7 FOR FULLTEXT)
InfoReach, Inc. Introduces Pay-Per-Use Trade Management System.
PR Newswire, pNA
March 14, 2005
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 440

... provides the ability to trade baskets and single orders of global equities, futures, options and **FX** either manually or **algorithmically**. Equipped with out-of-the-box strategies, TMS also serves as a platform for the...

9/3,K/5 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

11255116 Supplier Number: 117765481 (USE FORMAT 7 FOR FULLTEXT)
Xilinx Unveils Virtex-4 Family - Industry's First Multi-Platform FPGA; First Embodiment of ASMBL Architecture Promises Up to Twice the Density and Twice the Performance of Any FPGA Currently in Production.
PR Newswire, pNA
June 7, 2004
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 966

... of performance make the SX devices the
ideal complement to programmable DSP processors as DSP **algorithm** accelerators.
-- Virtex-4 **FX**
Platform FPGAs are assembled with capabilities tuned for
complex system applications including high-speed serial...

9/3,K/6 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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08959646 Supplier Number: 77827781 (USE FORMAT 7 FOR FULLTEXT)

SYNTHESIZER & SAMPLER MODULES.

Electronic Musician, v17, n7, p178
July, 2001
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 879

...	0/448			
Korg		N/A	LP/resonat algorithm	0/100
Korg		18 MB	Reso filter FX algorithm /Y	1,471/200
Korg		DWGS in ROM	LP;BP;HP	0/128
Korg		32 MB in ROM...		

9/3,K/7 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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07606362 Supplier Number: 59624392 (USE FORMAT 7 FOR FULLTEXT)

SOFTWARE NEWS.(International Pages)(Product Announcement)

WAUGH, IAN
Pro Sound News Europe, v14, n9, p70
Sept, 1999
Language: English Record Type: Fulltext
Article Type: Product Announcement
Document Type: Magazine/Journal; Trade
Word Count: 2843

... switched between at any time during a performance. There are eight new non-real-time **FX algorithms**, the ability to export finished remixes as MP3, Windows Media Audio, Stereo WAV, RealPlayer G2...

9/3,K/8 (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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01730265 Supplier Number: 42162577

Eicon gets fax data to desktop

Computing Canada, p35
June 20, 1991
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Trade

ABSTRACT:

...and DOS, and supports Ventura Publisher, PageMaker, and Microsoft Word. The package also enables fax **decompression** on reception. EiconScript (**FX**) is available in 2 models: the model 100 and the model 300. ...

9/3,K/9 (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

01679207 Supplier Number: 42087298 (USE FORMAT 7 FOR FULLTEXT)

ATI Announces Two New Multimedia Boards

News Release, p1

May 20, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 771

... and easy-
to-use software tools for voice recordings and playback. In addition,
the AUDIO **FX** provides compression and **decompression** features to
minimize the required disk storage space.

Microsoft Multimedia Windows Compatible

The AUDIO **FX**...

9/3,K/10 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

35972961 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Xilinx Unveils Virtex-4 Family - Industry's First Multi-Platform FPGA

PR NEWSWIRE (US)

June 07, 2004

JOURNAL CODE: WPRU LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1101

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... of performance make the SX devices the ideal complement to
programmable DSP processors as DSP **algorithm** accelerators. -- Virtex-4
FX Platform FPGAs are assembled with capabilities tuned for complex
system applications including high-speed serial...

9/3,K/11 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2005 The Gale group. All rts. reserv.

04474539 SUPPLIER NUMBER: 18159896 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**1996 NAMM breaks records. (National Association of Music Merchants exhibit
in Anaheim, California)**

McHugh, Catherine

TCI, v30, n4, p17(2)

April, 1996

ISSN: 1063-9497 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 996 LINE COUNT: 00085

... Digital Reverberator as a companion to the PCM 80 Digital Effects
Processor, and the Pitch **FX Algorithm** and Preset cards that expand the
processor's functions by plugging into the unit's...

9/3,K/12 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

15528911 SUPPLIER NUMBER: 95876324 (USE FORMAT 7 OR 9 FOR FULL TEXT)
New software cuts time and cost of colour matching. (Colour).
British Plastics & Rubber, 46(1)
Nov, 2002
ISSN: 0307-6164 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 154 LINE COUNT: 00016

SpectraMatch **FX** embodies new **algorithms** based on multi-flux mathematics and goes beyond conventional Kubelka-Munk theory. It needs only ...

9/3,K/13 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

12154962 SUPPLIER NUMBER: 61949535 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Expansion into the energy industry.
Energy Report, 27, 3, 5
March, 2000
ISSN: 0093-7657 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 124 LINE COUNT: 00014

TEXT:

...options, exotic currency/commodity options, and interest rate options. The company is known for its **FX** option **algorithms** for energy, power and weather. Kalahari will now be offering these analytics as an additional...

9/3,K/14 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

03295351 SUPPLIER NUMBER: 05237757 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Alliant Computer Systems breaks price-performance barrier for parallel supercomputing.
PR Newswire, NE2
Oct 19, 1987
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1176 LINE COUNT: 00101

... departmental users or clusters of networked workstations. The company also announced high-performance compiler and **algorithm** products for the **FX** /Series systems.

"We achieved the **FX/4**'s low price through a combination of new...

...manufacturing efficiencies," said Craig Mundie, vice president of marketing. "In addition, major advances in the **algorithms** optimized for the **FX** /Series parallel architecture transparently provide very significant application-level performance increases."

Alliant's new software...

9/3,K/15 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

02470778 SUPPLIER NUMBER: 69711182 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Take Along Tunes - The Play-by-Play on Buying a Portable Digital-Music
Player. (Buyers Guide)**

Labriola, Don

Computer Shopper, 130

March 1, 2001

DOCUMENT TYPE: Buyers Guide ISSN: 0886-0556 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 2337 LINE COUNT: 00188

... mediocre home stereo. Spatializer Audio Laboratories aims to change
all that with its Digital OntheGo **FX algorithm**, which the company
expects to be incorporated into a significant portion of all the handheld
...

9/3,K/16 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2005 The Gale Group. All rts. reserv.

01009131 Supplier Number: 39584328 (USE FORMAT 7 FOR FULLTEXT)

**AVAL INTRODUCES NEW SOCKET ADAPTORS, ADVANCED SYSTEM SOFTWARE, AND EMULATOR
FOR EPROMs**

PR Newswire, pN/A

Sept 2, 1985

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 237

... algorithm, the FUJITSU quick
programming algorithm and the AMD interactive programming

SEPTEMBER 2, 1985

-2

algorithm . The **FX -72** socket adaptor also operates with 2.xx
supporting Fujitsu bipolar "71" and "72" series...

9/3,K/17 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

04667807 Supplier Number: 60104147 (USE FORMAT 7 FOR FULLTEXT)

Windows World.

Smithers, Brain

Electronic.Musician, v15, n7, p54

July, 1999

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 4778

... map changes to either or both. Among this effect's options is a
formant-preserving **algorithm** . Other Cakewalk **FX** include delay, chorus,
flanger, reverb, and dedicated pitch shifter. All sound excellent and
support presets.

?


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Why Upgrade to
Version 2000?

Archive: Version 4.0 Features

Version 4.0 Feature Update

The current release is **Pixel!FX 2000**. However, we are making this archived list for the convenience of customers using older versions of Pixel!FX. The current version features below as well as newer enhancements added prior to the latest release.

See [Feature Archives](#) for features added in other previous Pixel!FX releases.

Pixel!FX Version 4.0 Enhancements

Features are grouped by topic or Pixel! application.

- **New Products**
 - **[Pixel!FX Deluxe](#)**
 - **[Pixel!SCAN](#)**
 - **[Pixel!EDIT](#)**
 - **[Pixel!VIEW](#)**
 - **[Pixel!DB](#)**
 - **[Pixel!OCR](#)**
 - **[Licensing](#)**
-

New Products

- [Pixel!FX Deluxe](#)
- [Pixel!DB](#)

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Pixel!FX Deluxe

- New product suite offers a complete set of imaging tools in a single, integrated, UNIX-based image processing.
- Includes Pixel!SCAN, Pixel!EDIT, Pixel!VIEW, Pixel!DB, Pixel!OCR, Pixel!LZW.
- The Pixel!FX Deluxe suite is priced lower than the sum of the individual components.

Site Index

price.

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Pixel!SCAN

- Automated color calibration, to be used with the Mentalix Color Calibration added.
- Color calibration generates a scanner-specific profile that is saved to disk a scan (unless disabled) until the scanner is re-calibrated.
- Support for applying convolution filters (e.g., Unsharp Mask, Descreen or a filter) while scanning makes it even easier for customers to scan and process a simple step.
- ADF support has been improved, with the added capability to scan a fixed size the document feeder.
- Support for scanning to database and scanning to fax has been added.

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Pixel!EDIT

- Graphical objects can be added to images. The graphical objects that are supported are polygons, rectangles, circles, ellipses, and text. Line width is user-selectable.
- Graphics editing features allow you to selectively change attributes, resize, and delete previously added graphics.
- The graphical objects are drawn in an overlay plane, and are stored and retrieved in a vector graphics file. The graphical objects can be drawn in any color available.
- Graphics can be "burned" into the image.
- Text graphical objects support 35 postscript fonts, arbitrary rotation angles, and bold/italic/underline.
- The following convolution filters have been added:
 - Unsharp Mask
 - Descreen
 - Ringing
 - Emboss
 - Prewitt
 - Diagonal
 - Blur
 - Smooth
 - Sharpen
- Support for user-defined kernels has been added.
- Image stitching enables users to assemble two or more images into a larger image.
- Paste from file enables users to create a selection from another image file. This facilitates image stitching.
- Multi-page editing support has been added to enable easy assembly and management of multi-page images for document imaging, fax and database applications.
- Color quantization has been improved with introduction of three additional methods: Median cut and Uniform. Both Optimal and Median cut offer significant improvements over the previous methods.

previous color quantization algorithm in terms of color quality.

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Pixel!VIEW

- Support for JPEG compression in TIFF files has been added.
- Progressive JPEG and interlaced GIF are supported to facilitate WWW pag
- BMP import and export file filters added.
- Pseudo color postscript performance has been improved with file sizes redu
- Support for multi-page postscript files has been added.
- Ability to view image thumbnails and image size details while you are usin
- been added.
- Most loadable image file types are detected automatically.
- You can send and receive faxes directly from Pixel!FX to most popular thir
- applications.
- All '.jif' extension uses have been changed to '.jpg'.
- Support for user data type extensions has been added to enable launching th
- directly from the Pixel!FX Image Album or Open dialog.
- Files in directory 'pfxdesk' in user's home directory are automatically load

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Pixel!DB

- The new Pixel!DB application allows easy storage, indexing, search and retrieval of images.
- Pixel!DB supports an unlimited number of read-only users and one read/write user.
- Users can import single image files or entire directories of images into Pixel!DB.
- Images can be imported by reference or copied into the database.
- Database can be configured to automatically compress images using lossy compression.
- Database can be configured to automatically execute OCR (requires Pixel!OCR) on all imported images.
- Images scanned to database are stored directly to file without being loaded into memory.
- Users can work with multiple databases simultaneously, and can easily move data between databases.
- Integration with Pixel!VIEW and Pixel!EDIT allows easy modification and retrieval of images.
- Each database record contains: image, title, user filename, keywords, description, notes and OCR data.
- Scroll through the image title list or click on the image title to update the database record information including low resolution (thumbnail) image and associated data.
- Search for images using textual query on any or all associated textual fields.
- Easily review and edit your search results using the query result image title.
- Intuitive query interface allows you to easily combine queries for more powerful operations.

- Export group of images to a directory using image-specific export file name.

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Pixel!OCR

- A new version of the OCR engine has been integrated.
- The user interface has been improved to display the image on the OCR dial.
- Zone support has been added, including automatic Zone decomposition, Zone editing, and Zone ordering.
- Zone typing allows the user to restrict zones to one of the following types:
 - ANSI
 - Lowercase (a ... z)
 - Uppercase (A ... Z)
 - Alpha (a ... z A ... Z)
 - Digit (0 ... 9)
 - Alphanumeric (a ... z A ... Z 0 ... 9)
 - Numeric (0 ... 9 \$+-%/=&.,)
 - Fixed Length Expression
 - Word List
- Fixed Length Expression allows users to specify expressions (e.g., phone number).
- Word List allows users to specify a file name that contains a list of allowable zone.
- Load and Save settings are added to enable forms processing.
- Support for performing scanning and OCR in one step has been added.

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Licensing

- Working with TIFF LZW and GIF image formats now requires a Pixel!LZW license to satisfy Mentalix's license agreement with Unisys.
- Pixel!PRINT is now licensed as a separate add-on product, rather than being included with the new, comprehensive Pixel!FX *Deluxe* suite.

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